November 2014

COMMONWEALTH OF VIRGINIA - Government

Virginia Statewide Two-Way Radio Products and Services Direct Contract has been extended to Icom America for another year.

Contract Number: VA-111104-ICOM

Term: February 21, 2009 through November 4, 2015

Website: http://vita2.virginia.gov/procurement/contractDetail.cfm?contract_id=1000722

Eligible Agencies: Mandatory use for Executive Branch agencies and institutions; optional use for all other Public Bodies of the Commonwealth of Virginia**.**

Contract Terms: Payment Terms: 2% 20, Net 30 OAC
Freight: F.O.B. Destination within CONUS
Delivery: All order(s) must be delivered 60 days ARO
Shipping: Free ground shipping

Products Available: Land Mobile, Systems, Avionics, Receiver Product Groups, as well as supporting Accessories.

Contract Pricing: Products classified as Land Mobile, Systems and Accessories listed Icom America's U.S. Retail Price & Product Catalogs at fixed discount of 37.25% off retail. Avionic equipment listed Icom America's U.S. Retail Price & Product Catalog at fixed discount of 49.25% off retail. Receiver equipment listed Icom America's U.S. Retail Price & Product Catalog at fixed discount of 21.25% off retail.

Purchase Orders: Purchase orders should be issued directly to Icom America, 12421 Willows Road NE, Kirkland, WA 98034.

Quotes & Orders: Agencies can contact either an Authorized Icom Dealer or Icom America directly for price quote requests. Purchase orders must be issued and sent directly to Icom America for processing. Please indicate the ship to address as your agency or to the Icom dealer who will perform installation for you.

Phone: 800.306.1403
Fax: 425.450.6063
Email: governmentsales@icomamerica.com

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Invoices: Will reflect special pricing offered to our valued Virginia State Customers, special payment terms as outlined above, contact number, as well as Customer's purchase order number.

Ship-to Destination: The ship-to address may be made out to either the:

1. Government agency address, or the
2. Icom dealer address. The dealer will receive the products, program, deliver and train agency personnel.

Support Services: Make sure to include any installation or programming instructions with your purchase order.

Programming: Make sure to include any programming instructions on your purchase order, as basic radio programming is included in the price of the mainframe.

Installation: If basic radio module installation is required, please make sure your expectations are outlined on your purchase order to Icom America.

Product Information: Feel free to contact our Technical Support Team for any product-related questions or if you need technical assistance for our product(s):

Phone:	425-454-7619
Fax:	425-637-8417
Email:	landmobile@icomamerica.com

Warranty: Standard Icom product warranty is two (2) years, yet selected radio models at three (3) years; one (1) year for supporting accessories. Contact Warranty Administration for complete details.

Extended Warranty: Icom America offers extended warranties on selected product lines as outlined herein.

Service Support: Icom has Authorized Dealerships and Service centers throughout the United States from which products can be serviced (including warranty service work) or installed as necessary by various Virginia End-users. Please refer to our website to find an Icom Authorized Service Center near you:

http://www.icomamerica.com/en/support/PartsAndService/servicecenters.aspx

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Discount Rate	Icom America offers the State of Virginia a fixed discount rate is based on product group and subject to Icom America's current published retail.
Landmobile	37.25% from published retail
Avionics	49.25% from published retail
Receivers	21.25% from published retail
Accessories	37.25% from published retail
Retail Prices	The retail prices offered herein are from October 2014.
Shipping Terms	FOB Destination. Icom America offers free surface freight on all orders for the State (CONUS).

Model	Description	Retail	State Price
LANDMOBILE PRODUCT GROUP			
4088A 15	FRS low power FM handheld with a short antenna	$ 165.00	$ 103.54
F1000 01	136-174MHz 16 CH, no display	$ 210.00	$ 131.78
F1000S 05	136-174MHz, 128 CH, LCD, 4-key	$ 375.00	$ 235.31
F1000T 09	136-174MHz, 128CH, LCD, full DTMF keypad. November availability.	$ 405.00	$ 254.14
F14 05 RC	Radio with rapid charger in the box (BC-160 01)	$ 330.00	$ 207.08
F1721 43	136-174MHz analog mobile (P25 upgradeable)	$ 855.00	$ 536.51
F1721D 41	136-174MHz P25 mobile	$ 1,258.00	$ 789.40
F2000 01	400-470MHz 16 channel, no display	$ 210.00	$ 131.78
F2000 21	450-512MHz 16 CH, no LCD. January 2015 availability	$ 210.00	$ 131.78
F2000S 05	400-470MHz, 128 CH, LCD, 4-key	$ 375.00	$ 235.31
F2000S 23	450-512MHz, 128 CH, LCD, 4-key. January 2015 availability	$ 375.00	$ 235.31
F2000T 09	400-470MHz, 128 CH, LCD, full DTMF keypad	$ 405.00	$ 254.14
F2000T 25	450-512MHz, 128 CH, LCD, full DTMF keypad. January 2015 availability.	$ 405.00	$ 254.14
F24 07 RC	Radio with rapid charger in the box (BC-160 01)	$ 350.00	$ 219.63
F24 27 RC	Radio with rapid charger in the box (BC-160 01)	$ 350.00	$ 219.63
F2721D 01	400-470MHz P25 mobile	$ 1,520.00	$ 953.80
F2721D 03	400-470MHz analog mobile, upgradeable to P25	$ 810.00	$ 508.28
F2821D 21	400-470MHz P25 mobile	$ 820.00	$ 514.55
F2821D 22	450-512MHz P25 mobile	$ 799.00	$ 501.37
F2821D 23	400-470MHz analog mobile, upgradeable to P25	$ 650.00	$ 407.88
F3001 02 DTC	136-174MHz radio with 1400mAh NiMH battery & trickle charger (BC-192)	$ 185.00	$ 116.09
F3001 03 RC	136-174MHz radio with 1900mAh Li-ion battery & rapid charger (BC-193)	$ 230.00	$ 144.33
F3011 41 RC	136-174MHz radio with rapid charger in the box (BC-160)	$ 240.00	$ 150.60
F3101D 02 RC	136-174MHz radio with 1900mAh Li-ion battery and rapid charger in the box	$ 465.00	$ 291.79
F3161DS 75	136-174MHz intrinsically safe IDAS radio no DTMF keypad	$ 875.00	$ 549.06
F3161DT 65	136-174MHz intrinsically safe IDAS radio full DTMF keypad	$ 895.00	$ 561.61
F3161S 55	136-174MHz intrinsically safe analog radio no DTMF keypad	$ 639.00	$ 400.97
F3161S 56	136-174MHz analog only radio, no DTMF keypad	$ 578.00	$ 362.70
F3161T 45	136-174MHz intrinsically safe analog radio full DTMF keypad	$ 664.00	$ 416.66
F3161T 46	136-174MHz analog only radio, full DTMF keypad	$ 602.00	$ 377.76
F3210D 01	136-174MHz IDAS 16 channel MultiTrunk portable with rapid charger (BC193)	$ 600.00	$ 376.50
F3230DS 13	136-174MHz IDAS 128 channel MultiTrunk portable with display	$ 610.00	$ 382.78
F3261DS 51	136-174MHz waterproof IDAS radio, no DTMF keypad	$ 800.00	$ 502.00
F3261DS 55	136-174MHz waterproof IDAS radio with GPS, no DTMF keypad	$ 880.00	$ 552.20
F3261DT 36	136-174MHz waterproof IDAS radio, full DTMF keypad	$ 845.00	$ 530.24
F3261DT 31 RR	Railroad specific version: 136-174MHz 512 channel, IDAS waterproof portable radio with a DTMF keypad. Special railroad firmware installed.	$ 866.00	$ 543.42
F3261DT 32 RR	Railroad specific version: 136-174MHz 512 channel, IDAS waterproof portable radio with a DTMF keypad and GPS. Special railroad firmware installed.	$ 951.00	$ 596.75
F3261DT 40	136-174MHz waterproof IDAS radio with GPS, full DTMF keypad	$ 925.00	$ 580.44
F4001 02 DTC	400-470MHz radio with 1400mAh NiMH battery & trickle charger (BC-192)	$ 185.00	$ 116.09
F4001 03 RC	400-470MHz radio with 1900mAh Li-ion battery & rapid charger (BC-193)	$ 230.00	$ 144.33
F4001 42 DTC	450-512MHz radio with 1400mAh NiMH battery & trickle charger (BC-192)	$ 185.00	$ 116.09
F4001 43 RC	450-512MHz radio with 1900mAh Li-ion battery & rapid charger (BC-193)	$ 230.00	$ 144.33
F4011 41 RC	400-470MHz radio with rapid charger in the box (BC-160)	$ 240.00	$ 150.60
F4011 42 RC	450-512MHz radio with rapid charger in the box (BC-160)	$ 240.00	$ 150.60
F4031S 72	400-470MHz radio only no DTMF keypad	$ 350.00	$ 219.63
F4031S 73	450-512MHz radio only no DTMF keypad	$ 350.00	$ 219.63
F4101D 02 RC	400-470MHz radio with 1900mAh Li-ion battery & rapid charger in the box	$ 465.00	$ 291.79
F4101D 36 RC	450-512MHz radio with 1900mAh Li-ion battery & rapid charger in the box	$ 465.00	$ 291.79
F4161DS 80	450-512MHz intrinsically safe IDAS radio, no DTMF keypad	$ 875.00	$ 549.06
F4161DT 65	400-470MHz intrinsically safe IDAS radio full DTMF keypad	$ 895.00	$ 561.61
F4161DT 70	450-512MHz intrinsically safe IDAS radio, full DTMF keypad	$ 895.00	$ 561.61
F4161S 21	400-470MHz analog only radio, no DTMF keypad	$ 578.00	$ 362.70
F4161S 55	400-470MHz intrinsically safe analog radio, no DTMF keypad	$ 639.00	$ 400.97
F4161S 56	450-512MHz analog only radio, no DTMF keypad	$ 578.00	$ 362.70
F4161S 60	450-512MHz intrinsically safe analog radio, no DTMF keypad	$ 639.00	$ 400.97
F4161T 41	400-470MHz analog only radio, full DTMF keypad	$ 602.00	$ 377.76
F4161T 45	400-470MHz intrinsically safe analog radio, full DTMF keypad	$ 664.00	$ 416.66
F4161T 46	450-512MHz analog only radio, full DTMF keypad	$ 602.00	$ 377.76
F4161T 50	450-512MHz intrinsically safe analog radio, full DTMF keypad	$ 664.00	$ 416.66
F4210D 01	400-470MHz IDAS 16 channel MultiTrunk portable with rapid charger (BC193)	$ 600.00	$ 376.50
F4210D 21	450-512MHz IDAS 16 channel MultiTrunk portable with rapid charger (BC193)	$ 600.00	$ 376.50
F4230DS 13	400-470MHz IDAS 128 channel MultiTrunk portable with display	$ 610.00	$ 382.78
F4230DS 32	450-512MHz IDAS 128 channel MultiTrunk portable with display	$ 610.00	$ 382.78

Model	Description	Retail	State Price
F4261DS 15	400-470MHz waterproof IDAS radio with GPS, no DTMF keypad	$ 880.00	$ 552.20
F4261DS 36	450-512MHz waterproof IDAS radio, no DTMF keypad	$ 800.00	$ 502.00
F4261DS 40	450-512MHz waterproof IDAS radio with GPS, no DTMF keypad	$ 880.00	$ 552.20
F4261DS 61	400-470MHz waterproof IDAS radio, no DTMF keypad	$ 800.00	$ 502.00
F4261DT 01	400-470MHz waterproof IDAS radio, full DTMF keypad	$ 845.00	$ 530.24
F4261DT 31	450-512MHz waterproof IDAS radio, full DTMF keypad	$ 845.00	$ 530.24
F4261DT 35	450-512MHz waterproof IDAS radio with GPS, full DTMF keypad	$ 925.00	$ 580.44
F4261DT 55	400-470MHz waterproof IDAS radio with GPS, full DTMF keypad	$ 925.00	$ 580.44
F5011 51	136-174MHz mobile	$ 346.00	$ 217.12
F5021 51	136-174MHz mobile	$ 395.00	$ 247.86
F5061 11	136-174MHz analog only mobile	$ 600.00	$ 376.50
F5061D 51	136-174MHz IDAS mobile	$ 785.00	$ 492.59
F5061D 61	136-174MHz IDAS radio, RR firmware installed, HM-148T included	$ 853.00	$ 535.26
F50V 01	136-174MHz waterproof radio	$ 513.00	$ 321.91
F50V 11	136-174MHz waterproof radio with voice and vibrate features	$ 620.00	$ 389.05
F5121D 56	136-174MHz IDAS mobile	$ 635.00	$ 398.46
F5220D 01	136-174MHz IDAS mobile	$ 695.00	$ 436.11
F6011 51	400-470MHz mobile	$ 346.00	$ 217.12
F6011 52	450-512MHz mobile	$ 346.00	$ 217.12
F6021 51	400-470MHz mobile	$ 395.00	$ 247.86
F6021 52	450-512MHz mobile	$ 395.00	$ 247.86
F6061 11	400-470MHz analog mobile	$ 600.00	$ 376.50
F6061 16	450-512MHz analog mobile	$ 600.00	$ 376.50
F6061D 31	400-470MHz IDAS mobile	$ 785.00	$ 492.59
F6061D 36	450-512MHz IDAS mobile	$ 785.00	$ 492.59
F60V 01	400-470MHz waterproof radio	$ 513.00	$ 321.91
F60V 11	400-470MHz waterproof radio with voice and vibrate features	$ 554.00	$ 347.64
F60V 16	450-512MHz waterproof radio	$ 513.00	$ 321.91
F60V 18	450-512MHz waterproof radio with voice and vibrate features	$ 554.00	$ 347.64
F6121D 57	400-470MHz IDAS mobile	$ 635.00	$ 398.46
F6121D 58	450-512MHz IDAS mobile	$ 635.00	$ 398.46
F6220D 01	400-470MHz IDAS mobile	$ 695.00	$ 436.11
F6220D 21	450-512MHz IDAS mobile	$ 695.00	$ 436.11
F70DS 01	136-174MHz P25 radio, no DTMF keypad	$ 1,135.00	$ 712.21
F70DS 04	136-174MHz P25 radio with FIPS AES installed, no DTMF keypad. Special order only, minimum number required.	$ 2,280.00	$ 1,430.70
F70DS 21	136-174MHz intrinsically safe P25 radio, no DTMF keypad	$ 1,650.00	$ 1,035.38
F70DT 11	136-174MHz P25 radio, full DTMF keypad	$ 1,185.00	$ 743.59
F70DT 14	136-174MHz P25 radio with FIPS AES installed, full DTMF keypad. Special order only, minimum number required.	$ 2,370.00	$ 1,487.18
F70DT 31	136-174MHz intrinsically safe P25 radio, full DTMF keypad	$ 1,720.00	$ 1,079.30
F70S 23	136-174MHz intrinsically safe analog radio, no DTMF keypad (P25 upgradeable)	$ 913.00	$ 572.91
F70T 33	136-174MHz intrinsically safe analog radio, full DTMF keypad (P25 upgradeable)	$ 963.00	$ 604.28
F80DS 01	400-470MHz P25 radio, no DTMF keypad	$ 1,720.00	$ 1,079.30
F80DS 31	380-450MHz P25 radio with FIPS AES installed, no DTMF keypad	$ 1,100.00	$ 690.25
F80T 25	400-470MHz analog radio, full DTMF keypad (P25 upgradeable)	$ 650.00	$ 407.88
F80T 56	450-512MHz intrinsically safe analog radio, full DTMF keypad (P25 upgradeable)	$ 975.00	$ 611.81
F8101 03	HF 125W transceiver with ALE (automatic link establishment)	$ 3,750.00	$ 2,353.13
F9011B 01	136-174MHz P25 Trunking radio without a display or keypad	$ 1,636.00	$ 1,026.59
F9011S 05	136-174MHz P25 Trunking radio with a display, no DTMF keypad	$ 2,020.00	$ 1,267.55
F9011T 10	136-174MHz P25 Trunking radio with a display and full DTMF keypad	$ 2,200.00	$ 1,380.50
F9021B 01	400-470MHz P25 Trunking radio without a display or keypad	$ 1,636.00	$ 1,026.59
F9021B 21	450-512MHz P25 Trunking radio without a display or keypad	$ 1,636.00	$ 1,026.59
F9021B 41	380-470MHz P25 Trunking radio without a display or keypad	$ 1,636.00	$ 1,026.59
F9021S 05	400-470MHz P25 Trunking radio with a display, no DTMF keypad	$ 2,020.00	$ 1,267.55
F9021S 25	450-512MHz P25 Trunking radio with a display, no DTMF keypad	$ 2,020.00	$ 1,267.55
F9021S 45	380-470MHz P25 Trunking radio with a display, no DTMF keypad	$ 2,020.00	$ 1,267.55
F9021T 10	400-470MHz P25 Trunking radio with a display and full DTMF keypad	$ 2,200.00	$ 1,380.50
F9021T 30	450-512MHz P25 Trunking radio with a display and full DTMF keypad	$ 2,200.00	$ 1,380.50
F9021T 50	380-470MHz P25 Trunking radio with a display and DTMF keypad	$ 2,200.00	$ 1,380.50
F9511HT 01	136-174MHz 110W P25 Trunking mobile with full keypad. No external speaker included - must be ordered separately	$ 3,050.00	$ 1,913.88
F9511S 01	136-174MHz P25 Trunking 50W mobile with no keypad	$ 2,060.00	$ 1,292.65
F9511T 05	136-174MHz P25 Trunking 50W mobile with keypad	$ 2,160.00	$ 1,355.40
F9521S 01	400-470MHz 45W P25 Trunking mobile, no keypad	$ 2,060.00	$ 1,292.65
F9521S 11	450-512MHz 45W P25 Trunking mobile, no keypad	$ 2,060.00	$ 1,292.65
F9521T 05	400-470MHz mobile with full keypad	$ 2,160.00	$ 1,355.40
F9521T 15	450-512MHz mobile with full keypad	$ 2,160.00	$ 1,355.40
SYSTEM PRODUCTS			
CY5000 41	136-174MHz analog/digital repeater	$ 2,230.00	$ 1,399.33
CY5000 41 D 150-155	136-174MHz analog/digital repeater with duplexer (150-155MHz) included	$ 2,835.00	$ 1,778.96
CY5000 41 D 152-155	136-174MHz analog/digital repeater with duplexer (152-155MHz) included	$ 2,835.00	$ 1,778.96
CY5000 41 D PRE 150-155	136-174MHz analog/digital repeater with pre-selector and duplexer (150-155MHz) included	$ 3,300.00	$ 2,070.75
CY5000 41 PRE	136-174MHz analog/digital repeater with pre-selector installed	$ 2,855.00	$ 1,791.51
CY6000 41	400-470MHz analog/digital repeater	$ 2,230.00	$ 1,399.33

Model	Description	Retail	State Price
CY6000 41 D 457-462	400-470MHz analog/digital repeater with duplexer (457-462) included	$ 2,835.00	$ 1,778.96
CY6000 41 D PRE 457-462	400-470MHz analog/digital repeater with pre-selector and duplexer (457-462) included	$ 3,300.00	$ 2,070.75
CY6000 41 PRE	400-470MHz analog/digital repeater with pre-selector	$ 2,855.00	$ 1,791.51
CY6000 51	450-512MHz analog/digital repeater	$ 2,230.00	$ 1,399.33
CY6000 51 D 457-462	450-512MHz analog/digital repeater with duplexer (457-462) included	$ 2,835.00	$ 1,778.96
CY6000 51 D PRE 457-462	450-512MHz analog/digital repeater with pre-selector and duplexer (457-462) included	$ 3,300.00	$ 2,070.75
CY6000 51 PRE	450-512MHz analog/digital repeater with pre-selector	$ 2,855.00	$ 1,791.51
FR5000 01	136-174MHz analog/digital IDAS repeater (power supply not included)	$ 2,165.00	$ 1,358.54
FR5000 01 2CH KIT	136-174MHz 2 channel conventional system (2 repeaters, 2 external power supplies)	$ 3,130.00	$ 1,964.08
FR5000 01 UR KIT	136-174MHz, 2 channel analog/digital repeater (FR5000 + URFR5000)	$ 2,695.00	$ 1,691.11
FR6000 01	400-470MHz analog/digital IDAS repeater (power supply not included)	$ 2,165.00	$ 1,358.54
FR6000 01 2CH KIT	400-470MHz 2 channel conventional system (2 repeaters, 2 external power supplies)	$ 3,130.00	$ 1,964.08
FR6000 01 UR KIT	400-470MHz, 2 channel analog/digital repeater (FR6000 01 + URFR6000 41)	$ 2,695.00	$ 1,691.11
FR6000 11	450-512MHz analog/digital IDAS repeater (power supply not included)	$ 2,165.00	$ 1,358.54
FR6000 11 2CH KIT	450-512MHz 2 channel conventional system (2 repeaters, 2 external power supplies)	$ 3,130.00	$ 1,964.08
FR6000 11 UR KIT	450-512MHz, 2 channel analog/digital repeater (FR6000 11 + URFR6000 51)	$ 2,695.00	$ 1,691.11
FR9010 11	146-174MHz 110W P25 repeater	$ 8,700.00	$ 5,459.25
FR9020 11	440-475MHz 100W P25 repeater	$ 8,700.00	$ 5,459.25
IAS 100DU 01	400-470MHz 100W standard version	$ 5,050.00	$ 3,168.88
IAS 100DU 01 PUBLIC SAFTY	400-470MHz 100W public safety version with 70Amp power supply with smart charging external battery	$ 5,890.00	$ 3,695.98
IAS 100DU 11	450-512MHz 100W standard version	$ 5,050.00	$ 3,168.88
IAS 100DU 11 PUBLIC SAFTY	450-512MHz 100W public safety version with 70Amp power supply with smart charging external battery	$ 5,890.00	$ 3,695.98
IAS 100DV	136-174MHz 100W public safety version with 20 amp power supply	$ 5,050.00	$ 3,168.88
IAS 100DV PUBLIC SAFETY	136-174MHz 100W public safety version with 70Amp power supply with smart charging external battery	$ 5,890.00	$ 3,695.98
IAS HPUK F1721	136-174MHz 100W mobile kit	$ 2,135.00	$ 1,339.71
IAS HPUK F1721D	136-174MHz 100W P25 mobile kit	$ 2,810.00	$ 1,763.28
IAS VOTING RX UHF	400-470 voting receiver; 460MHz center frequency	$ 2,833.34	$ 1,777.92
IAS VOTING RX VHF	136-174 voting receiver; 150-174MHz center frequency	$ 2,833.34	$ 1,777.92
IAS X-BAND 50	VHF FM & UHF FM cross band repeater	$ 2,500.00	$ 1,568.75
IAS X-BAND 50 AIR U	Airband AM & UHF FM cross band repeater	$ 3,250.00	$ 2,039.38
IAS X-BAND 50 AIR V	Air AM & VHF FM cross band repeater	$ 3,250.00	$ 2,039.38
IAS X-BAND 50 UU	UHF FM & UHF FM cross band repeater	$ 2,500.00	$ 1,568.75
IAS X-BAND 50 VV	VHF FM & VHF FM cross band repeater	$ 2,500.00	$ 1,568.75
RFT 136-174	100W analog 136-174MHz repeater with a power supply (P25 upgradeable)	$ 9,955.00	$ 6,246.76
RFT 400-430	100W analog 400-430MHz repeater with a power supply (P25 upgradeable)	$ 10,395.00	$ 6,522.86
RFT 440-490	100W analog 440-490MHz repeater with a power supply (P25 upgradeable)	$ 10,395.00	$ 6,522.86
RFT 485-520	100W P25/analog 485-520MHz repeater with a power supply	$ 10,395.00	$ 6,522.86
RFT P25 136-174	2-120W P25/analog 136-174MHz repeater with a power supply	$ 12,905.00	$ 8,097.89
RFT P25 400-430	100W P25/analog 400-430MHz repeater with a power supply	$ 13,305.00	$ 8,348.89
RFT P25 440-490	100W P25/analog 440-490MHz repeater with a power supply	$ 13,305.00	$ 8,348.89
RFT P25 485-520	100W P25/analog 485-520MHz repeater with a power supply	$ 13,305.00	$ 8,348.89
URFR5000 41	136-174MHz analog/digital repeater channel module	$ 1,205.00	$ 756.14
URFR6000 41	400-470MHz repeater module	$ 1,205.00	$ 756.14
URFR6000 51	450-512MHz repeater module	$ 1,205.00	$ 756.14
AVIONIC PRODUCT GROUP			
A110 24	Airband mobile with 20 channels	$ 1,559.00	$ 791.19
A110 24B	20 channel mobile with power supply and cabinet for base station	$ 1,799.00	$ 912.99
A110 25	Airband mobile with 760 channels	$ 1,559.00	$ 791.19
A110 25B	760 channels mobile with power supply and cabinet for base station	$ 1,799.00	$ 912.99
A14 21	200 channel radio with full DTMF keypad	$ 399.00	$ 202.49
A14S 01	100 channel radio without a DTMF keypad	$ 397.00	$ 201.48
A210 25	Radio only	$ 2,165.00	$ 1,098.74
A210 25B	Radio with PS80 04 power supply for base station option	$ 3,265.00	$ 1,656.99
A210 25M	Radio with MB-53 for mobile mount	$ 2,615.00	$ 1,327.11
A24 01	Air band 5W handheld transceiver with VOR navigation	$ 555.00	$ 281.66
A6 30	5 watt airband transceiver with large display COMM ONLY	$ 475.00	$ 241.06
RECEIVERS PRODUCT GROUP			
R20 SPORT 06	Blocked HH receiver. Requires alkaline batteries, no charger included	$ 625.00	$ 492.19
R6 20	Unblocked for Federal/Export Only with battery and charger included	$ 246.00	$ 193.73
R6 SPORT 16	Blocked version for consumer purhcase. Requires 2 AA batteries.	$ 225.00	$ 177.19
R75 22	HF+50MHz Receiver Twin PBT, PC Control, AF-DSP	$ 896.00	$ 705.60
R9500 02	Blocked version for consumer purchase	$ 16,000.00	$ 12,600.00
R9500 06	Unblocked for Federal/Export Only	$ 17,500.00	$ 13,781.25
PRODUCT ACCESSORIES			
94412913	R75 CD service manual	$ 40.00	$ 25.10
94412917	F3/F3S/F4/F4S CD service manual	$ 40.00	$ 25.10
94413329	A110 CD service manual	$ 40.00	$ 25.10
94413342	718 CD service manual	$ 40.00	$ 25.10
94413419	78 CD service manual	$ 40.00	$ 25.10
94413511	F40GS/GT CD service manual	$ 40.00	$ 25.10

Model	Description	Retail	State Price
94414100	V8000 CD service manual	$ 40.00	$ 25.10
94414314	F11/F11S/F21/F21S CD service manual	$ 40.00	$ 25.10
94414481	F121S/221S & F121/221 CD service manual	$ 40.00	$ 25.10
94414628	M88 CD service manual	$ 40.00	$ 25.10
94414732	F520/521/620/621 CD service manual	$ 40.00	$ 25.10
94414791	FR3000/4000 CD service manual	$ 40.00	$ 25.10
94414803	F30G/F40G CD service manual	$ 40.00	$ 25.10
94414804	F50/F60 CD service manual	$ 40.00	$ 25.10
94414815	F43TR CD service manual	$ 40.00	$ 25.10
94414819	7800 CD service manual	$ 40.00	$ 25.10
94414860	M802 CD service manual	$ 40.00	$ 25.10
94414901	F1721/1821/2721/2821 CD service manual	$ 40.00	$ 25.10
94414904	A24/A6 CD service manual	$ 40.00	$ 25.10
94414913	F14/F24 CD service manual	$ 40.00	$ 25.10
94414927	GM1600 CD service manual	$ 40.00	$ 25.10
94414968	ID1 CD service manual	$ 40.00	$ 25.10
94415032	7000 CD service manual	$ 40.00	$ 25.10
94415064	M72 CD service manual	$ 40.00	$ 25.10
94415078	M504 CD service manual	$ 40.00	$ 25.10
94415081	F3161/4161/D & F3061/4061 CD service manual	$ 40.00	$ 25.10
94415181	M604 CD service manual	$ 40.00	$ 25.10
94415195	F3021/F4021 CD service manual	$ 40.00	$ 25.10
94415196	F70/F80 CD service manual	$ 40.00	$ 25.10
94415248	2820H CD service manual	$ 40.00	$ 25.10
94415251	F5061/F6061 CD service manual	$ 40.00	$ 25.10
94415333	92AD CD service manual	$ 40.00	$ 25.10
94415339	A14/A14S service manual - CD	$ 40.00	$ 25.10
94415352	7700 CD service manual	$ 40.00	$ 25.10
94415355	FR6000 CD service manual	$ 40.00	$ 25.10
94415358	F60V CD service manual	$ 40.00	$ 25.10
94415376	F50V CD service manual	$ 40.00	$ 25.10
94415436	F9511 CD service manual	$ 40.00	$ 25.10
94415460	7600 service manual - CD	$ 40.00	$ 25.10
94415461	ID880H CD service manual	$ 40.00	$ 25.10
94415462	80AD service manual - CD	$ 40.00	$ 25.10
94415463	MXA5000 CD service manual	$ 40.00	$ 25.10
94415491	F4011 CD service manual	$ 40.00	$ 25.10
94415494	F3011 CD service manual	$ 40.00	$ 25.10
94415499	F5021 CD service manual	$ 40.00	$ 25.10
94415514	FR5000 CD service manual	$ 40.00	$ 25.10
94415526	V80 CD service manual	$ 40.00	$ 25.10
94415529	T70A CD service manual	$ 40.00	$ 25.10
94415532	R6 CD service manual	$ 40.00	$ 25.10
94415538	7200 service manual CD version	$ 40.00	$ 25.10
94415576	M412 CD service manual	$ 40.00	$ 25.10
94415578	MA500TR CD service manual	$ 40.00	$ 25.10
94415593	F3101D CD service manual	$ 40.00	$ 25.10
94415596	F5011 CD service manual	$ 40.00	$ 25.10
94415599	7410 service manual - CD	$ 40.00	$ 25.10
94415602	F3001/4001 CD service manual	$ 40.00	$ 25.10
94415605	M24 CD service manual	$ 40.00	$ 25.10
94415608	F5121D CD service manual	$ 40.00	$ 25.10
94415609	F4101D CD service manual	$ 40.00	$ 25.10
94415641	F6021 CD service manual	$ 40.00	$ 25.10
94415692	9100 service manual - CD	$ 40.00	$ 25.10
94415695	F6121D CD service manual	$ 40.00	$ 25.10
94415697	F6011 CD service manual	$ 40.00	$ 25.10
94416500	M36 CD service manual	$ 40.00	$ 25.10
94416534	2300H CD service manual	$ 40.00	$ 25.10
94416541	ID31A CD service manual	$ 40.00	$ 25.10
94416603	7100 service manual CD	$ 40.00	$ 25.10
94416646	F3210D/4210D CD service manual	$ 40.00	$ 25.10
94416649	F6220D CD service manual	$ 40.00	$ 25.10
94416651	F5220D CD service manual	$ 40.00	$ 25.10
94416670	Service manual CD for FR9010	$ 40.00	$ 25.10
94416673	Service manual CD for FR9020	$ 40.00	$ 25.10
94416677		$ 40.00	$ 25.10
94416679	Service manual CD for F4230D	$ 40.00	$ 25.10
97712311	F3/F3S/F4/F4S service manual hardcopy	$ 40.00	$ 25.10
97712938	R75 service manual hardcopy	$ 40.00	$ 25.10
97713330	A110 service manual hardcopy	$ 40.00	$ 25.10
97713343	718 service manual hardcopy	$ 40.00	$ 25.10
97713420	78 service manual hardcopy	$ 40.00	$ 25.10
97713510	F30GS/GT service manual hardcopy	$ 40.00	$ 25.10
97713513	F40GS/GT service manual hardcopy	$ 40.00	$ 25.10
97713705	F21/F21S service manual hardcopy	$ 40.00	$ 25.10

Model	Description	Retail	State Price
97713930	F11/F11S service manual hardcopy	$ 40.00	$ 25.10
97714097	V8000 service manual hardcopy	$ 40.00	$ 25.10
97714190	F520/F521 service manual hardcopy	$ 40.00	$ 25.10
97714197	M802 service manual hardcopy	$ 40.00	$ 25.10
97714627	M88 service manual hardcopy	$ 40.00	$ 25.10
97714766	FR4000 service manual hardcopy	$ 40.00	$ 25.10
97714774	F121 service manual hardcopy	$ 40.00	$ 25.10
97714775	F221 service manual hardcopy	$ 40.00	$ 25.10
97714806	F50 service manual - hardcopy	$ 40.00	$ 25.10
97714811	F60 service manual - hardcopy	$ 40.00	$ 25.10
97714816	F43TR service manual hardcopy	$ 40.00	$ 25.10
97714833	4088A service manual hardcopy	$ 40.00	$ 25.10
97714840	R20 service manual hardcopy	$ 40.00	$ 25.10
97714843	F43GS/GT service manual hardcopy	$ 40.00	$ 25.10
97714895	F33GS/GT service manual hardcopy	$ 40.00	$ 25.10
97714915	A6/A24 service manual hardcopy	$ 40.00	$ 25.10
97714917	F1721/D & F1821/D service manual hardcopy	$ 40.00	$ 25.10
97714922	F14/F14S service manual hardcopy	$ 40.00	$ 25.10
97714932	F24/F24S service manual hardcopy	$ 40.00	$ 25.10
97714933	F70S/T & F70DS/DT service manual hardcopy	$ 40.00	$ 25.10
97715035	7000 service manual hardcopy	$ 40.00	$ 25.10
97715066	M72 service manual hardcopy	$ 40.00	$ 25.10
97715079	M504 service manual hardcopy	$ 40.00	$ 25.10
97715082	F3161/D service manual-hardcopy	$ 40.00	$ 25.10
97715091	ID1 service manual- hardcopy	$ 40.00	$ 25.10
97715148	F3021 service manual - hardcopy	$ 40.00	$ 25.10
97715149	GM1600 service manual hardcopy	$ 40.00	$ 25.10
97715171	F4021 service manual - hardcopy	$ 40.00	$ 25.10
97715182	M604 service manual hardcopy	$ 40.00	$ 25.10
97715249	2820H service manual - hardcopy	$ 40.00	$ 25.10
97715252	F5061/D service manual - hardcopy	$ 40.00	$ 25.10
97715259	F6061/D service manual - hardcopy	$ 40.00	$ 25.10
97715315	A210 service manual hardcopy	$ 40.00	$ 25.10
97715317	F50V service manual - hardcopy	$ 40.00	$ 25.10
97715331	92AD service manual hardcopy	$ 40.00	$ 25.10
97715337	A14/A14S service manual hardcopy	$ 40.00	$ 25.10
97715348	FR6000 service manual - hardcopy	$ 40.00	$ 25.10
97715351	7700 service manual hardcopy	$ 40.00	$ 25.10
97715356	F60V service manual - hardcopy	$ 40.00	$ 25.10
97715370	FR5000 service manual - hardcopy	$ 40.00	$ 25.10
97715395	7800 service manual - hardcopy	$ 40.00	$ 25.10
97715409	7200 service manual hardcopy	$ 40.00	$ 25.10
97715423	F9511 service manual - hardcopy	$ 40.00	$ 25.10
97715432	M36 service manual hardcopy	$ 40.00	$ 25.10
97715439	F5021 service manual	$ 40.00	$ 25.10
97715444	7600 service manual - hardcopy	$ 40.00	$ 25.10
97715445	80AD service manual - hardcopy	$ 40.00	$ 25.10
97715446	ID880H service manual - hardcopy	$ 40.00	$ 25.10
97715456	MXA5000 service manual - hardcopy	$ 40.00	$ 25.10
97715473	F6021 service manual	$ 40.00	$ 25.10
97715490	F4011 service manual - hardcopy	$ 40.00	$ 25.10
97715493	F3011 service manual - hardcopy	$ 40.00	$ 25.10
97715515	F4001 hard copy service manual	$ 40.00	$ 25.10
97715517	V80 service manual hardcopy	$ 40.00	$ 25.10
97715519	F3001 hard copy service manual	$ 40.00	$ 25.10
97715527	T70A service manual hardcopy	$ 40.00	$ 25.10
97715530	R6 hardcopy service manual	$ 40.00	$ 25.10
97715573	M412 service manual hardcopy	$ 40.00	$ 25.10
97715574	MA500TR service manual - hardcopy	$ 40.00	$ 25.10
97715592	F3101D service manual - hardcopy	$ 40.00	$ 25.10
97715595	F5011 service manual hardcopy	$ 40.00	$ 25.10
97715598	7410 service manual - hardcopy	$ 40.00	$ 25.10
97715604	M24 service manual hardcopy	$ 40.00	$ 25.10
97715607	F5121D service manual - hardcopy	$ 40.00	$ 25.10
97715608	F4101D service manual hardcopy	$ 40.00	$ 25.10
97715691	9100 service manaul - hardcopy	$ 40.00	$ 25.10
97715696	F6011 service manual hardcopy	$ 40.00	$ 25.10
97715710	F6121D service manual - hardcopy	$ 40.00	$ 25.10
97716530	2300H hardcopy service manual	$ 40.00	$ 25.10
97716539	ID31A service manual hardcopy	$ 40.00	$ 25.10
97716645	F3210D/4210D service manual hardcopy	$ 40.00	$ 25.10
97716648	F6220D hardcopy service manual	$ 40.00	$ 25.10
97716650	F5220D hardcopy service manual	$ 40.00	$ 25.10
97716669	Service manual hard copy FR9010	$ 40.00	$ 25.10
97716672	Service manual hard copy for FR9020	$ 40.00	$ 25.10
97716676	Service manual hardcopy F3230D	$ 40.00	$ 25.10

Model	Description	Retail	State Price
97716678	Service manual hardcopy F4230D	$ 40.00	$ 25.10
98812456	F3/F3S/F4/F4S owner's manual	$ 12.00	$ 7.53
98812934	R75 owner's manual	$ 12.00	$ 7.53
98813163	UT111 OWNERS MANUAL	$ 12.00	$ 7.53
98813332	A110 owner's manual	$ 12.00	$ 7.53
98813344	718 owner's manual	$ 12.00	$ 7.53
98813421	78 owner's manual	$ 12.00	$ 7.53
98813509	F30G/F40G owner's manual	$ 12.00	$ 7.53
98813703	F11/F11S & F21/F21S owner's manual	$ 12.00	$ 7.53
98814186	V8000 owner's manual	$ 12.00	$ 7.53
98814193	F520/F620 owner's manual	$ 12.00	$ 7.53
98814198	M802 OWNERS MANUAL	$ 12.00	$ 7.53
98814613	M88 owner's manual	$ 12.00	$ 7.53
98814698	FR4000 OWNERS MANUAL	$ 12.00	$ 7.53
98814699	F121/F221 owner's manual	$ 12.00	$ 7.53
98814785	ID1 owner's manual	$ 12.00	$ 7.53
98814809	F50/60 owner's manual	$ 12.00	$ 7.53
98814817	F43GS/GT owner's manual	$ 12.00	$ 7.53
98814851	R20 owner's manual	$ 12.00	$ 7.53
98814852	7800 owner's manual	$ 12.00	$ 7.53
98814877	F1721/D, F1821/D, F2721/D, F2821/D owner's manual	$ 12.00	$ 7.53
98814911	F70DS/DT, F70S/T, F80DS/DT, F80S/T owner's manual	$ 12.00	$ 7.53
98814945	A24/A6 owner's manual	$ 12.00	$ 7.53
98814946	F14/F24 owner's manual	$ 12.00	$ 7.53
98815018	7000 owner's manual	$ 12.00	$ 7.53
98815033	M72 owner's manual	$ 12.00	$ 7.53
98815083	F3161/4161/D & F3061/4061 owner's manual	$ 12.00	$ 7.53
98815159	IDRP2 products owner's manual	$ 12.00	$ 7.53
98815160	GM1600 owner's manual	$ 12.00	$ 7.53
98815180	F3021/4021 owner's manual	$ 12.00	$ 7.53
98815192	F43TR owner's manual	$ 12.00	$ 7.53
98815250	2820H owner's manual	$ 12.00	$ 7.53
98815253	F5061/D owner's manual	$ 12.00	$ 7.53
98815256	R9500 owner's manual	$ 12.00	$ 7.53
98815260	F6061/D owner's manual	$ 12.00	$ 7.53
98815284	IDRP2000/4000 owner's manual	$ 12.00	$ 7.53
98815316	A210 owner's manual	$ 12.00	$ 7.53
98815318	F50V/60V owner's manual	$ 12.00	$ 7.53
98815332	92AD owner's manual	$ 12.00	$ 7.53
98815338	A14/S owner's manual	$ 12.00	$ 7.53
98815350	FR5000/6000 owner's manual	$ 12.00	$ 7.53
98815353	7700 owner's manual	$ 12.00	$ 7.53
98815380	7200 owner's manual	$ 12.00	$ 7.53
98815437	7600 owner's manual	$ 12.00	$ 7.53
98815454	80AD owner's manual	$ 12.00	$ 7.53
98815455	ID880H owner's manual	$ 12.00	$ 7.53
98815457	MXA5000 owner's manual	$ 12.00	$ 7.53
98815492	F3011/4011 owner's manual	$ 12.00	$ 7.53
98815525	V80 owner's manual	$ 12.00	$ 7.53
98815528	T70A owner's manual	$ 12.00	$ 7.53
98815531	R6 owner's manual	$ 12.00	$ 7.53
98815577	M412 owner's manual	$ 12.00	$ 7.53
98815579	MXA500TR owner's manual	$ 12.00	$ 7.53
98815591	F3101D/4101D owner's manual	$ 12.00	$ 7.53
98815594	F5011/6011 owner's manual	$ 12.00	$ 7.53
98815597	7410 owner's manual	$ 12.00	$ 7.53
98815600	F3001/4001 owner's manual	$ 12.00	$ 7.53
98815603	M24 owner's manual	$ 12.00	$ 7.53
98815606	F5121D/6121D owner's manual	$ 12.00	$ 7.53
98815638	F5021/6021 owner's manual	$ 12.00	$ 7.53
98815693	9100 owner's manual	$ 12.00	$ 7.53
98816438	M504A owner's manual	$ 12.00	$ 7.53
98816439	M604A owner's manual	$ 12.00	$ 7.53
98816533	2300H owner's manual	$ 12.00	$ 7.53
98816540	ID31A owner's manual	$ 12.00	$ 7.53
98816601	7100 owner's manual	$ 40.00	$ 25.10
98816644	F3210D/4210D owner's manual	$ 12.00	$ 7.53
98816647	F5220D/6220D hardcopy service manual	$ 12.00	$ 7.53
98816671	Owner's manual FR9010/9020	$ 12.00	$ 7.53
98816675	Owner's manual F3230D/4230D	$ 12.00	$ 7.53
8930061401	Rack mount handles for older Icom Amateur radios	$ 26.00	$ 20.02
97715154U	F4161/D service manual-hardcopy	$ 40.00	$ 25.10
A200 TRAY	Mounting tray for A200 & A210	$ 65.00	$ 40.79
AD100	Adapter cup to install in the BC119N or BC121N for the F50/60 & M88 radios	$ 27.00	$ 16.94
AD101	Adapter cup to install in the BC119N or BC121N for the BP210N & BP211 batteries	$ 28.00	$ 17.57
AD106	Adapter cup to install in the BC119N or BC121N for the radios with the BP232N/H battery	$ 28.00	$ 17.57

Model	Description	Retail	State Price
AD109	GM1600 Adapter BC119N 01 BC121N M90	$ 18.00	$ 11.30
AD110	Adapter cup to install in the BC119N or BC121N for the BP253 or BP254 batteries	$ 28.00	$ 17.57
AD114	M72 adapter cup for BC119N/BC121N	$ 28.00	$ 17.57
AD120	Adapter cup that fits into the BC197 02/03 for the BP264 NiMH battery	$ 23.00	$ 14.43
AD121	Adapter cup that fits into the BC197 12/13 for the BP265 Li-ion battery	$ 23.00	$ 14.43
AD122	Adapter cup that fits into the BC197 22/23 for the BP232N/H batteries	$ 23.00	$ 14.43
AD123 02	Charger adapter cup for M24	$ 23.00	$ 14.43
AD129	Adapter cup for BC197 gang charger for M73	$ 27.00	$ 16.94
AD52	Earphone adapter for the F3161/F4161/F30G/M88	$ 25.00	$ 15.69
AD55S 22	110V AC power supply adapter	$ 64.00	$ 40.16
AD92SMA	Antenna connector adapter to connect a BNC-type antenna	$ 20.00	$ 12.55
AD94 11	Adapter cup installs in the BC119N or BC121N for the BP209N & BP210N batteries	$ 28.00	$ 17.57
AD98FSC	Antenna connector adapter for "J" to "BNC" conversion	$ 22.00	$ 13.81
AD99N	Spacer for the AD94 adapter cup	$ 6.40	$ 4.02
AH2B	Antenna element/base	$ 599.00	$ 375.87
AH4 12	Automatic antenna tuner (long wire/AH2B)	$ 345.00	$ 271.69
AH-5NV	Fiberglass antenna element (14.8ft) for short range communication	$ 1,490.00	$ 934.98
AH710	Folded dipole antenna with an SO-239 connector. Covers 1.9 to 30MHz band. Length is approx 80.3ft.	$ 430.00	$ 269.83
AH740	Relay-driven compact automatic tuning antenna 1.6MHz-29.999MHz	$ 2,315.00	$ 1,452.66
AH760	1.6MHz–29.999MHz heavy-duty moving coil automatic tuning antenna	$ 3,325.00	$ 2,086.44
AH8000	Discone antenna wideband RX TX 100-3300MHz	$ 340.00	$ 213.35
ANT SB	Avionic switchbox	$ 79.00	$ 49.57
ANTENNA 1	118-940MHz mountable unity antenna, Field Tunable, 1/4 WAVE, CHR	$ 20.00	$ 12.55
ANTENNA 2	144-174MHz 3dB gain mountable antenna, CHR, 59" high	$ 38.00	$ 23.85
ANTENNA 3	450-470MHz 5dB gain mountable antenna, CHR, 40" high	$ 42.00	$ 26.36
ANTENNA 4	152-162MHz 3dB Gain Mountable Gray 1/4 Wave 21.6"	$ 20.00	$ 12.55
ASAP FR RACK	Rack-cabinet mounting frame for FR3000/4000	$ 120.00	$ 75.30
ASAP FR6000 UNIVERSAL PL	Internal universal accessory mounting plate	$ 26.00	$ 16.32
ASAP INDOOR CABINET 30	30" indoor cabinet	$ 1,365.00	$ 856.54
ASAP INDOOR CABINET 46	46" indoor cabinet	$ 1,950.00	$ 1,223.63
ASAP INDOOR CABINET 60	60" indoor cabinet	$ 3,025.00	$ 1,898.19
ASAP REPEATER CONTROL BOX	18ga Clrl Powdercoated incl Faceplt	$ 64.00	$ 40.16
AT130	Auto antenna tuner M710/IC-78	$ 690.00	$ 432.98
AT140	HF automatic antenna tuner.	$ 710.00	$ 445.53
AT180	Automatic antenna tuner (coax 50 Ohm load)	$ 599.00	$ 471.71
AW F50 AREA 51	Water repellant case with a swivel belt clip for the F50/60 & M88	$ 35.00	$ 21.96
AW F50 STUD/SWIVEL KIT	Metal stud that screws into the battery and a metal swivel clip that slides onto the stud	$ 21.00	$ 13.18
AW F70 AREA 51	Water repellant case with a swivel belt clip for the F70/80	$ 35.00	$ 21.96
AW STUD	Metal stud that slides on where the belt clip goes. Requires AW Swivel	$ 12.00	$ 7.53
AW STUD/SWIVEL KIT	Metal stud that slides on like a belt clip and it's attached to a strong metal swivel belt clip	$ 21.00	$ 13.18
AW SWIVEL	Swivel clip used with the AW Stud/Swivel Kit.	$ 13.00	$ 8.16
B ANT	Base station antenna 118.8 to 126.8MHz with 50' 4" cable for Avionic mobile units.	$ 365.00	$ 229.04
BC119N 01	110V rapid charger - requires radio specific adapter cup(not CEC compatible for Amateur/Marine radios)	$ 75.00	$ 47.06
BC119N 02	220V rapid charger - requires radio specific adapter cup	$ 76.00	$ 47.69
BC119N 51	110V rapid charger with AD100 installed F50/F60/M88	$ 99.00	$ 62.12
BC119N 61	110V rapid charger with AD110 installed F70/80/9011/9021	$ 80.00	$ 50.20
BC121N	6 unit multi-charger; requires radio specific adapter cups & BC157 AC adapter	$ 305.00	$ 191.39
BC121N A24	6-Unit Charger Kit BC121N + BC157 + AD101 x 6	$ 593.00	$ 372.11
BC121N AD106 220V KIT	6 unit 220V gang charger kit BC121N + BC157S 09 + AD106 x 6	$ 593.00	$ 372.11
BC121N AD106 KIT	6 unit 117V gang charger kit BC121N + BC157S 07 + AD106 x 6	$ 593.00	$ 372.11
BC121N F50	6-Unit Charger Kit BC121N + BC157S 07 + AD100 x 6	$ 587.00	$ 368.34
BC121N F50 220V	6-Unit Charger Kit BC121N + BC157S 09 + AD100 x 6	$ 593.00	$ 372.11
BC121N F70	6-Unit Charger Kit BC121N + BC157 + AD110 x 6	$ 593.00	$ 372.11
BC121N F70 220V	220V 6-Unit Charger Kit BC121N + BC157 + AD110 x 6	$ 593.00	$ 372.11
BC122A	AC Adptr-Trickle Chrgr F3/F4/S/G/F11/F21/M1	$ 16.00	$ 10.04
BC123SA 51	AC adapter for BC191/BC193/BC160 rapid chargers with US plug	$ 25.00	$ 15.69
BC123SE	220V AC adapter for BC191/BC193/BC160 rapid chargers	$ 27.00	$ 16.94
BC133	Drop-In trickle charger for the F3/F3S/F4/F4S/T2H/A4	$ 40.00	$ 25.10
BC139 02	Rapid charger for BP217 battery. Charges in approx 2.5 hours.	$ 122.00	$ 76.56
BC144N 51	117V rapid charger F11/21/3G/4G/30G/40G series	$ 66.00	$ 41.42
BC144N 52	220V rapid charger F11/21/3G/4G/30G/40G series	$ 75.00	$ 47.06
BC145SA 31	110V AC adapter for rapid chargers	$ 25.00	$ 15.69
BC145SE 32	220V AC adapter for rapid chargers	$ 25.00	$ 15.69
BC146 01	Drop-in trickle charger base for the F11/21/3G/4G/30G/40G series. Requires BC147 AC adapter.	$ 32.00	$ 20.08
BC147SA 14	110-240V AC adapter for trickle chargers with a US plug	$ 15.00	$ 9.41
BC147SE 15	230V AC adapter for trickle chargers with a European plug	$ 16.00	$ 10.04
BC152N 11	F50/F60/M88 desktop trickle charger (requires BC-147)	$ 42.00	$ 26.36
BC153SA 52	110V trickle charger R5/R20	$ 39.00	$ 24.47
BC156	Desktop rapid charger for the R20 (not CEC compatible for AM radios)	$ 110.00	$ 69.03
BC157S	110V power supply for 6 bank gang chargers	$ 120.00	$ 75.30
BC157S 220V	220V power supply for the 6 bank gang chargers	$ 126.00	$ 79.07

Model	Description	Retail	State Price
BC158 01	Desktop trickle charger (GM1600 & M90)	$ 18.00	$ 11.30
BC160	Rapid charger with a US plug for radios with the BP230/231/232 batteries	$ 67.00	$ 42.04
BC160E	Rapid charger with European plug for radios with the BP230/231/232 batteries	$ 67.00	$ 42.04
BC162 01	110V Rapid charger for M34/M36	$ 57.00	$ 35.77
BC167SA	Wall charger 117V	$ 35.00	$ 21.96
BC167SD	Wall charger 220V	$ 40.00	$ 25.10
BC171 01	110V drop-in trickle charger for radios with the BP230/231/232 batteries	$ 47.00	$ 29.49
BC171 02	220V drop-in trickle charger for radios with the BP230/231/232 batteries	$ 45.00	$ 28.24
BC173 01	Desktop trickle charger (M34/M36) requires BC-147	$ 21.00	$ 13.18
BC177 02	92AD rapid charger	$ 90.00	$ 56.48
BC179 01	A14/A14S charging adapter w/ BC147SA	$ 46.00	$ 28.87
BC179 02	A14/A14S charging adapter w/ BC147SE	$ 46.00	$ 28.87
BC190 01	Sensing rapid charger for F50/60 radios	$ 80.00	$ 50.20
BC190 02	220V sensing rapid charger for F50/60 radios with Euro plug	$ 85.00	$ 53.34
BC191 12	110V rapid charger for radios with the NiMH BP264	$ 67.00	$ 42.04
BC191 13	220V Rapid charger for radios with the NiMH BP264	$ 67.00	$ 42.04
BC192 12	110V trickle charger for the NiMH BP264 (not CEC compatible for AM radios)	$ 36.00	$ 22.59
BC193	110V rapid charger for the Li-Ion BP265	$ 67.00	$ 42.04
BC194 02	Drop-in trickle charger stand to use with the BC-196S or CP-18A (R6)	$ 39.00	$ 24.47
BC196SA	110V AC adapter for R6 and BC194	$ 35.00	$ 21.96
BC196SD	220V AC adapter for R6 & BC194	$ 35.00	$ 21.96
BC197 02	110V six unit charger for radios with the BP264 NiMH battery (includes AC adapter and cups installed)	$ 510.00	$ 320.03
BC197 03	220V six unit charger for radios with the BP264 NiMH battery (includes AC adapter and cups installed)	$ 510.00	$ 320.03
BC197 12	110V six unit charger for radios with the BP265 Li-Ion battery (includes AC adapter and cups installed)	$ 510.00	$ 320.03
BC197 13	220V six unit charger for radios with the BP265 Li-Ion battery (includes AC adapter and cups installed)	$ 510.00	$ 320.03
BC197 22	110V six unit charger for radios with the BP232N/H Li-Ion battery (includes AC adapter and cups	$ 510.00	$ 320.03
BC197 23	220V 6 unit charger for radios with the BP232N/H Li-Ion battery (includes AC adapter and cups installed)	$ 510.00	$ 320.03
BC197 32	110V six unit charger for radios with the BP245N Li-Ion battery (includes AC adapter and cups installed)	$ 515.00	$ 323.16
BC199SA 12	110V wall charger for the M24	$ 15.00	$ 9.41
BC199SE 13	220V wall charger for the M24	$ 15.00	$ 9.41
BC202 02	Rapid charger (includes BC-123SA AC adapter in the box with US plug)	$ 70.00	$ 43.93
BC204 12	110V trickle charger (9 hours) for M92D/BP275	$ 65.00	$ 40.79
BC205 12	110V rapid charger (2.5 hours) for M92D/BP275	$ 90.00	$ 56.48
BC210 16	Rapid charger for the BP-245N (requires BC-123S AC adapter)	$ 61.00	$ 38.28
BC211	Rapid rate 6-unit charger - IP100H	$ 510.00	$ 320.03
BC211E	Rapid rate 6-unit charger 230V European plug - IP100H	$ 510.00	$ 320.03
BC213	Rapid charger with a US plug for radios with the BP279 battery (BC-123S included)	$ 42.00	$ 26.36
BC214	Six bank charger with US plug AC adapter and cups installed	$ 495.00	$ 310.61
BC214E	Six bank charger with EURO plug AC adapter and cups installed	$ 495.00	$ 310.61
BP206	Li-Ion 3.7V 1650 standard battery for the R3/R20	$ 71.00	$ 44.55
BP208N	Battery case that holds 6 AA alkaline batteries.	$ 22.00	$ 13.81
BP210N	NiMH 7.2V 1650mAh battery	$ 75.00	$ 47.06
BP210N FM	Intrinsically safe NiMH 7.2V 1650mAh battery for F30G/F40G IS radios	$ 131.00	$ 82.20
BP216	Alkaline battery case AA x 4 (T90A)	$ 48.00	$ 30.12
BP217	Li-Ion 7.4V 1300 battery for amateur handhelds	$ 125.00	$ 78.44
BP224	7.2V 750mAh NiCd battery	$ 63.00	$ 39.53
BP226	Battery case holds 5 AA alkaline batteries for the F50/F60 & M88	$ 50.00	$ 31.38
BP227	Li-ion 7.2V 1950mAh (typical capacity), 1850mAh (minimum value); waterproof	$ 110.00	$ 69.03
BP227FM	Intrinsically safe li-ion 7.2V 1950mAh (typical capacity), 1850mAh (minimum value); waterproof	$ 126.00	$ 79.07
BP232H	Li-ion 7.4V 2300mAh (typical capacity), 2250mAh (minimum value)	$ 75.00	$ 47.06
BP232N FM	Intrinsically safe li-ion 7.4V 2000mAh (typical capacity), 1900mAh (minimum value) F3161/4161 IS series	$ 145.00	$ 90.99
BP232WP	Li-ion 7.4V 2300mAh (typical capacity), 2250mAh (minimum value) IP67 waterproof battery	$ 75.00	$ 47.06
BP234	GM1600 9.0V 3300mAh Lithium Battery Pack "Surface Shipping Only"	$ 218.00	$ 136.80
BP237	Battery case that holds 6 AA alkaline batteries	$ 39.00	$ 24.47
BP240	Battery case that holds 6 AAA alkaline batteries (1W output power)	$ 35.00	$ 21.96
BP245N	M72/M73 7.4V 2000mAh Li-Ion	$ 90.00	$ 56.48
BP251	Alkaline Case 5 AAA M34	$ 35.00	$ 21.96
BP252	7.4V 980mAh Li-Ion battery (M36/M34)	$ 68.00	$ 42.67
BP253	Li-ion 7.2V 1650mAh (typical capacity), 1570mAh (minimum value)	$ 110.00	$ 69.03
BP254	Li-ion 7.2V 3040mAh (typical capacity), 2900mAh (minimum value) for P25 portables	$ 155.00	$ 97.26
BP254FM	Intrinsically safe li-ion 7.2V 3040mAh (typical capacity), 2900mAh (minimum value)	$ 183.00	$ 114.83
BP256	Li-Ion 7.4V 1500mAh 92AD	$ 115.00	$ 72.16
BP257	Alkaline battery case AA x 2 (92AD)	$ 48.00	$ 30.12
BP261	Battery Case A14 A14S AA X 6	$ 73.00	$ 45.81
BP263	Battery case that holds 6 AA alkaline batteries	$ 30.00	$ 18.83
BP264	1400mAh NiMH	$ 43.00	$ 26.98
BP265	1900mAh Li-ion	$ 62.00	$ 38.91
BP266	Li-ion 1500mAh battery for the M24	$ 60.00	$ 37.65

Model	Description	Retail	State Price
BP271	Li-ion 7.4V 1200mAh (typical capacity), 1150mAh (minimum value)	$ 99.00	$ 62.12
BP272	Li-ion 7.4V 2000mAh (typical capacity), 1880mAh (minimum value)	$ 139.00	$ 87.22
BP273	Battery case that holds 3 AA alkaline batteries	$ 68.00	$ 42.67
BP275	7.4V 1500mAh Li-ion battery for M92D	$ 110.00	$ 69.03
BP279	Li-ion 7.2V 1485mAh battery	$ 70.00	$ 43.93
CEN EXD 380 MXI	380-420MHz stubby antenna for land mobile portable radios	$ 14.50	$ 9.10
CEN EXD 400 MXI	400-430MHz stubby antenna for land mobile portable radios	$ 14.50	$ 9.10
CEN EXD 400 SMI	400-420MHz stubby antenna for the F60/V portable radios	$ 14.50	$ 9.10
CEN EXD 450 SMI	450-470MHz stubby antenna for F60/V portable radios	$ 20.00	$ 12.55
CEN EXD 470 SMI	470-512MHz stubby antenna for F60/V portable radios	$ 14.50	$ 9.10
CEN EXS 150 SMI	150-160MHz stubby antenna for F50/V & M88 handheld radios	$ 16.00	$ 10.04
CEN EXS 160 SMI	160-174MHz stubby antenna for F50/V & M88 handheld radios	$ 14.50	$ 9.10
CFFR5000 02	Multi-site (conventional only) IP repeater link card (requires the UC-FR5000 board)	$ 65.00	$ 40.79
CFFR5000MT	Multi-site(conventional & trunking)IP repeater link card (requires UC-FR5000 board)	$ 1,375.00	$ 862.81
CFUF8100	Cooling fan unit	$ 440.00	$ 276.10
CONTROL STATION ASSEMBLE	Install mobile into power supply and cabinet to make control station	$ -	$ -
CP12L	Cigarette lighter cable with noise filter and right angle connector	$ 43.00	$ 26.98
CP17L	12V cigarette lighter cable for use with BC-119N/BC-160	$ 30.00	$ 18.83
CP18A	Cigarette lighter cable 12V	$ 40.00	$ 25.10
CP19R	Cigarette lighter cable with DC-DC converter, 10-16V DC required	$ 52.00	$ 32.63
CP20	Cigarette lighter cable with noise filter and DC-DC converter. Charges with a 12V/24V cigarette	$ 61.00	$ 38.28
CP22	Cigarette lighter cable wtih DC-DC converter for use with the BC179 for the A14/S. 12-24V DC	$ 69.00	$ 43.30
CP23L	12V cigarette lighter cable for use with BC-119N/160/191/193/213	$ 35.00	$ 21.96
CP24	Cigarette lighter cable that charges the charger in a vehicle	$ 28.00	$ 17.57
CP25	Cigarette lighter cable to use with BC-204 trickle charger	$ 27.00	$ 16.94
CP25H	Cigarette lighter cable to use with BC-210 rapid charger	$ 27.00	$ 16.94
CPI 106-0001-010	Rack Mount Panel for Tone Remote Control	$ 102.00	$ 64.01
CPI 106-0001-014	Rack Mount Panel for Tone Remote Control	$ 102.00	$ 64.01
CPI DR10	DC Remote Panel Telephone Style	$ 470.00	$ 294.93
CPI TR10	Tone Remote Deskset Telephone Style, 1-Channel	$ 510.00	$ 320.03
CPI TR10-16F	Tone Remote 16 Ch. Panel Telephone Style	$ 762.00	$ 478.16
CPI TR10-16F-DM	Tone Remote 16 Ch. Panel Console Style	$ 864.00	$ 542.16
CPI TR10-2F	Tone Remote Deskset Telephone Style 2-Ch.	$ 541.00	$ 339.48
CPI TR104W	4-Wire Option for TR10 Tone Remote Panel	$ 39.00	$ 24.47
CPI TR20	Tone Remote Panel Console Style with Paddle Mic	$ 892.00	$ 559.73
CPI TR30	Tone Remote Panel Console Style w/Internal Mic	$ 638.00	$ 400.35
CPI TR40	Tone Remote Panel Console Style w/Gooseneck Mic	$ 762.00	$ 478.16
CPI TTP BLANK	Blank Cover for 19" Rack Mount Assembly	$ 13.00	$ 8.16
CPIDTP1C	DC Remote Control Repeater Interface Board w/Case	$ 271.00	$ 170.05
CPITTP216	Tone Remote 16-Ch. Control Repeater Interface w/Case	$ 762.00	$ 478.16
CR282	High stability crystal	$ 230.00	$ 144.33
CR338	TCXO, high stability crystal Unit, ± 0.5 ppm (-10°C to +50°C) IC-707/718/77/78/746/ 746PRO/7400	$ 105.00	$ 65.89
CS2300H	Cloning software for 2300H	$ 85.00	$ 53.34
CS2820	2820H Cloning Software	$ 45.00	$ 28.24
CS9100	Cloning software for 9100	$ 60.00	$ 37.65
CSA110	A110 cloning software for versions 24/25 only	$ 53.00	$ 33.26
CSA14	Programming software for the A14/A14S	$ 77.00	$ 48.32
CSA210	A210 cloning software	$ 66.00	$ 41.42
CSA24	A24 Cloning Software	$ 65.00	$ 40.79
CSF100	Programming Software F121 F221	$ 75.00	$ 47.06
CSF100S	Programming software for the F121S/F221S mobiles	$ 75.00	$ 47.06
CSF11	F11/F21 Program Sftwre	$ 72.00	$ 45.18
CSF14	F14/F24 Program Sftwre w/ MDC	$ 75.00	$ 47.06
CSF2000	Programming software for the F1000/2000 series	$ 72.00	$ 45.18
CSF3	F3/S/F4/S Program Sftwre	$ 40.00	$ 25.10
CSF3001	F3001/F4001 programming software	$ 72.00	$ 45.18
CSF3011	F3011/4011 software	$ 75.00	$ 47.06
CSF3021/F5021/F5011	F3021/5021/5011 series programming software	$ 72.00	$ 45.18
CSF30G	F30G/F40G Prg Software	$ 72.00	$ 45.18
CSF3101D/F5121D	F3101D/F5121D series programming software	$ 72.00	$ 45.18
CSF3161/F5061	Software to program the F3161/4161 & F5061/6061 radios	$ 72.00	$ 45.18
CSF3210D	F3210D/4210D, CSF3230D/4230D & F5220D/6220D programming software	$ 72.00	$ 45.18
CSF33G	F33G/F43G Prg Software	$ 72.00	$ 45.18
CSF43TR	F43TR Program Software	$ 72.00	$ 45.18
CSF50	F50/F60 Program Software	$ 75.00	$ 47.06
CSF500	F520/F620 Prog. Sftwre	$ 72.00	$ 45.18
CSF50V	F50V Program Software	$ 72.00	$ 45.18
CSF620TR	F621TR programming software	$ 72.00	$ 45.18
CSF70/F1700	Cloning Softwre F70/F80/F1721/F1821/F2721/F282	$ 72.00	$ 45.18
CSF8101	F8101 programming software	$ 80.00	$ 50.20
CSF9010/F9510	F9011/9511 programming software	$ 72.00	$ 45.18
CSFR3000	FR3000 Program Sftwre	$ 72.00	$ 45.18
CSFR5000	FR5000/6000 programming software	$ 72.00	$ 45.18
CSFR9010	Programming software for the FR9010/9020	$ 72.00	$ 45.18
CSGM1600	Program Sftwre GM1600	$ 65.00	$ 40.79

Model	Description	Retail	State Price
CSM24	M24 programming software	$ 72.00	$ 45.18
CSM36	M36 Programming Software	$ 79.00	$ 49.57
CSM412	Programming software for the M412 fixed mount	$ 72.00	$ 45.18
CSM506	Programming software for the M506	$ 120.00	$ 75.30
CSM604A	M604A programming software	$ 82.00	$ 51.46
CSM72	M72 Programming Software	$ 65.00	$ 40.79
CSM73	Programming software for the M73	$ 95.00	$ 59.61
CSM802	M802 Program Software	$ 79.00	$ 49.57
CSM88	M88 programming software	$ 66.00	$ 41.42
CSM92D/M424	Programming software for M92D & M424	$ 90.00	$ 56.48
CSR20	R20 Cloning Software	$ 66.00	$ 41.42
CSR6	Programming software fo R6	$ 58.00	$ 36.40
CSRMK4	Programming software for the RMK4	$ 80.00	$ 50.20
CST70	T70A software	$ 50.00	$ 31.38
CSV80	V80 software	$ 60.00	$ 37.65
CSV8000	V8000 Cloning Software	$ 42.00	$ 26.36
CT17	Level converter	$ 190.00	$ 119.23
CT23 01	PTT microphone adapter to use SM-26 or HM-152 with a PC. Requires BC-147S.	$ 120.00	$ 75.30
CT24	Digital voice converter (supplied with RCFS10 and works with VEPG3)	$ 1,495.00	$ 938.11
CY5000 DUP KIT 150-159	150-159MHz internal duplexer for the CY5000 (9MHz minimum separation)	$ 608.33	$ 381.73
CY6000 DUP KIT 457-462	457-462MHz internal duplexer for the CY6000 (5MHz minimum separation)	$ 608.33	$ 381.73
DAN PROGRAMMING KIT	DAN PROGRAMMING KIT	$ 684.24	$ 429.36
EM80	9-pin full size speaker mic for F30G series. IS approved to work with F30G IS radios.	$ 15.00	$ 9.41
EMR64536/ENC	148-174 MHz duplexer, 3MHz minimum separation for the IAS 100WD repeater	$ 1,474.00	$ 924.94
EX2785J02	DES activation upgrade	$ 551.00	$ 345.75
EX2785J03	AES activation upgrade	$ 656.00	$ 411.64
F121 MMB	Mounting bracket F121/F221 F5011/F5021 series	$ 10.00	$ 6.28
F1721 MMB	Mounting bracket for F1721/F1821, F2721/2821, F9011S/T	$ 10.00	$ 6.28
F5061 IGN SENSE CABLE	96" cable with 3A fuse	$ 15.00	$ 9.41
F5061 MMB	Mounting bracket included with the F5061/F6061	$ 10.00	$ 6.28
FAB02AR	Standard antenna for Aviation handheld radios	$ 37.00	$ 23.22
FAB04RE	Wideband RX antenna (BNC)	$ 32.00	$ 20.08
FAB2E	136-174MHz antenna (BNC)	$ 35.00	$ 21.96
FAS24V	136-150MHz antenna for the F50 & M88 handhelds (Blue ring)	$ 12.50	$ 7.84
FAS25V	136-148 MHz flexible antenna - F9011 series	$ 10.00	$ 6.28
FAS270C	Wideband RX antenna (SMA)	$ 35.00	$ 21.96
FAS27U	400-470MHz antenna for the F60/V (green ring)	$ 13.00	$ 8.16
FAS56U	450-520MHz antenna for F60/V (red ring)	$ 13.00	$ 8.16
FAS57US	450-490MHz stubby antenna for F60/V portable radios (red ring)	$ 16.00	$ 10.04
FAS58U	400-470 MHz flexible antenna - standard on F9021	$ 16.00	$ 10.04
FAS59V	150-174MHz standard antenna for the F50 & M88 (red ring)	$ 13.00	$ 8.16
FAS61V	Standard antenna for GM1600	$ 12.00	$ 7.53
FAS62VS	150-162MHz stubby antenna for F50/V & M88 (Red ring)	$ 16.00	$ 10.04
FAS63VS	160-174MHz stubby antenna for F50/V & M88 (green ring)	$ 16.00	$ 10.04
FAS64V	M72/M73 flexible antenna 4 17/32" (115mm)	$ 15.00	$ 9.41
FAS65V	148-160 MHz flexible antenna - standard on F9011	$ 17.00	$ 10.67
FAS67VC	136-174 MHz cut antenna - F9011 series	$ 30.00	$ 18.83
FAS74U	490-520MHz antenna for F60/V (blue ring)	$ 12.50	$ 7.84
FASC25U	400-430MHz antenna for LM portables	$ 13.00	$ 8.16
FASC25V	136-150MHz antenna for LM portables	$ 13.00	$ 8.16
FASC55V	146-174MHz standard antenna for LM portables	$ 13.00	$ 8.16
FASC56VS	150-160MHz stubby antenna for LM portables	$ 14.50	$ 9.10
FASC57U	440-470MHz standard antenna for LM radios (red ring)	$ 13.00	$ 8.16
FASC57VS	160-174MHz stubby antenna for LM portables	$ 14.50	$ 9.10
FASC58V	Standard antenna for the M34 & M24 portables	$ 11.00	$ 6.90
FASC59V	M92D standard antenna	$ 18.00	$ 11.30
FASC61UC	380-520MHz cut antenna for the specific frequency desired	$ 16.00	$ 10.04
FASC61VC	136-174MHz cut antenna for the specific frequency desired	$ 16.00	$ 10.04
FASC62V	150-160MHz high gain antenna for LM portables (10")	$ 55.00	$ 34.51
FASC63V	155-165MHz high gain antenna for LM portables (9.5")	$ 55.00	$ 34.51
FASC72U	470-512MHz antenna for LM portables	$ 13.00	$ 8.16
FASC73US	450-470MHz stubby antenna for LM portable radios	$ 14.50	$ 9.10
FIP PR-15-4H	VHF internally mounted 4-cavity RX Pre-Selector (requires ASAP mounting plate for installation	$ 653.00	$ 409.76
FIP PR-45-4C	UHF internally mounted 4-cavity RX Pre-Selector (requires ASAP mounting plate for installation	$ 640.00	$ 401.60
FL100	500Hz CW/FSK narrow filter for older radios IC-575/706/725/726/728/	$ 165.00	$ 103.54
FL222	1.9kHz SSB filter IC-78/703 series/706 series/718/R75	$ 300.00	$ 188.25
FL223	9MHz 1.9kHz SSB filter IC-706 Series/746/756/775/781/R75	$ 150.00	$ 94.13
FL232	350Hz CW/RTTY Filter-HF IC-706 series/746/756/775/781/7400/R75	$ 170.00	$ 106.68
FL430	6kHz 1st IF filter for better receiver performance	$ 125.00	$ 78.44
FL431	3kHz 1st IF filter for better receiver performance	$ 125.00	$ 78.44
FL52A	500Hz 455KHz CW filter IC-78/703/718/746/756/7400/R75/R8500	$ 284.00	$ 178.21
HM103	Simple hand microphone (RJ45) for IC-706/703 series	$ 108.00	$ 67.77
HM126B	Standard black fornt mount mic for M504	$ 83.00	$ 52.08
HM126G	Standard gray fornt mount mic for M504	$ 83.00	$ 52.08
HM126RB	Standard black rear mount mic for M504/M604	$ 83.00	$ 52.08
HM126RG	Standard gray rear mount mic for M504/M604	$ 83.00	$ 52.08

Model	Description	Retail	State Price
HM128	Earphone-microphone with 2-pin straight connector	$ 30.00	$ 18.83
HM128L	Earphone/mic with 2-pin right angle connector	$ 28.50	$ 17.88
HM131	Speaker/microphone with earphone jack and clip (straight 2-pin, both stereo plug)	$ 45.00	$ 28.24
HM131SC	Speaker/microphone with earphone jack and clip (9-pin)	$ 79.00	$ 49.57
HM133	Standard full function remote microphone (squelch/volume)	$ 99.00	$ 62.12
HM133V	Standard partial function remote microphone (squelch only)	$ 106.00	$ 66.52
HM135	Hand microphone; water resistant, remote function for M802	$ 91.00	$ 57.10
HM138	Waterproof 9-pin marine style speaker mic (IS approved for F50/F60/M88/F70/F80)	$ 130.00	$ 81.58
HM148G	Self grounding microphone for mobile radios	$ 67.00	$ 42.04
HM148T	DMTF mobile microphone	$ 110.00	$ 69.03
HM151	Remote control microphone (7000/7100)	$ 145.00	$ 90.99
HM152	Standard microphone for low/mid range mobile radios	$ 44.00	$ 27.61
HM152T	DTMF modular microphone for LM mobile radios	$ 90.00	$ 56.48
HM153LA	Covert durable microphone with earphone combination (right angle 2-pin screw down connector)	$ 125.00	$ 78.44
HM153LS	Covert durable microphone with earphone combination (right angle 2-pin connector)	$ 175.00	$ 109.81
HM154	Simple microphone for Amateur mobile radios (RJ45)	$ 55.00	$ 34.51
HM154T	Basic DMTF microphone (RJ45 connector) all Amateur models	$ 90.00	$ 56.48
HM157B 11	Command Mic II Black	$ 175.00	$ 109.81
HM157SW 12	Command Mic II White	$ 175.00	$ 109.81
HM158LA	Compact speaker microphone with revolving clip and earphone jack (right angle 2-pin screw down connector, stereo mic/mono speaker)	$ 47.00	$ 29.49
HM159LA	Large speaker microphone with earphone jack and metal alligator clip (right angle 2-pin screw down connector, stereo mic/mono speaker)	$ 77.00	$ 48.32
HM159SC LG	Large speaker microphone with earphone jack and metal alligator clip (9-pin, stereo mic/mono speaker)	$ 92.00	$ 57.73
HM161	A110 hand microphone	$ 44.00	$ 27.61
HM164B	Standard black hand mic M412 & M304	$ 44.00	$ 27.61
HM164SW	Standard super white hand mic M412 & M304	$ 44.00	$ 27.61
HM165	Waterproof speaker mic for M34/M36	$ 87.00	$ 54.59
HM166LA	Earphone microphone with 2-pin right angle connector	$ 53.00	$ 33.26
HM166LS	Earphone microphone with two pin right angle connector	$ 99.00	$ 62.12
HM167	Lightweight IPX8 waterproof speaker mic M73/GM1600/M92/M72	$ 97.00	$ 60.87
HM169	Waterproof speaker mic (9-pin)	$ 105.00	$ 65.89
HM169 IS	Intrinscially safe waterproof speaker mic (9-pin)	$ 145.00	$ 90.99
HM170GP	9-pin waterproof GPS mic for EMDC or digital versions of the F3161/4161 series	$ 365.00	$ 229.04
HM171GP	2-pin GPS mic for F3101D/4101D series	$ 360.00	$ 225.90
HM173	Aviation speaker mic (2-pin right angle connector)	$ 106.00	$ 66.52
HM174	Waterproof IPX7 speaker microphone 92AD	$ 165.00	$ 103.54
HM176	Microphone for the A210 A200 PS80	$ 185.00	$ 116.09
HM184H	14-pin loud waterproof speaker mic (no mic jack)	$ 118.00	$ 74.05
HM186LS	Compact speaker microphone with slim right angle connector	$ 65.00	$ 40.79
HM189GPS	2-Pin GPS mic for 80AD	$ 325.00	$ 203.94
HM192	Remote control microphone for F8101	$ 640.00	$ 401.60
HM193	Hand microphone for the F8101	$ 85.00	$ 53.34
HM195B	Command Mic IV black	$ 350.00	$ 219.63
HM195SW	Command Mic IV super white	$ 350.00	$ 219.63
HM196B	Standard hand microphone for M424	$ 85.00	$ 53.34
HM196SW	Standard hand microphone for M424	$ 85.00	$ 53.34
HM198	Hand microphone for 7100	$ 55.00	$ 34.51
HM202	Compact IPX7 waterproof speaker mic M73/M72	$ 125.00	$ 78.44
HM205B	Speaker microphone for M506 front connector	$ 85.00	$ 53.34
HM207	Control hand microphone (ID-5100)	$ 99.00	$ 62.12
HM36	Hand microphone for all Amateur HF radios (8-pin connector)	$ 100.00	$ 62.75
HM75LS	Remote control speaker microphone with transmit indicator and earphone jack (right angle 2-pin, both stereo plug)	$ 99.00	$ 62.12
HM-9000	Speaker microphone for the FR9010/9020 repeaters	$ 80.00	$ 50.20
HMDDNRR42HDW	42" rack (includes assembly and hardware)	$ 502.00	$ 315.01
HMDDNRR63HDW	63" rack (includes assembly and hardware)	$ 561.00	$ 352.03
HMDDNRR70HDW	70" rack (includes assembly and hardware)	$ 569.00	$ 357.05
HMDRRTT1928	28" rack (includes assembly and hardware)	$ 275.00	$ 172.56
HM-HD7I6WP	Large waterproof speaker microphone with 3.5mm accessory jack(14-pin connector)	$ 120.00	$ 75.30
HM-HD7I7WP	Large waterproof speaker microphone with 3.5mm accessory jack (right angle 2-pin screw down	$ 110.00	$ 69.03
HS85	Headset w/Vox with straight 2-pin connector	$ 145.00	$ 90.99
HS94	Earpiece headset; use with VS1/OPC2004/OPC2006/OPC1392	$ 25.00	$ 15.69
HS95	Headset with boom mic; use with VS1/OPC2004/OPC2006/OPC1392	$ 215.00	$ 134.91
HS97	Earphone with throat mic headset; use with VS1/OPC2004/OPC2006/OPC1392	$ 42.00	$ 26.36
HS98	Handset for the M802	$ 275.00	$ 172.56
IA-10301	GPS receiver for IDAS mobiles that connects to the DB-25 accessory connector.	$ 110.00	$ 69.03
IA10321A	Cloning adapter for the UT-IA321. Use only with the OPC-1122U.	$ 70.00	$ 43.93
IA-BC171	Heavy duty vehicular charger for the F3161/F4161 series	$ 375.00	$ 235.31
IAS 1RU ANT SW-DUAL	Dual antenna switch for base station operation	$ 910.00	$ 571.03
IAS 1RU ANT SW-SINGLE	Single antenna switch for base station operation	$ 500.00	$ 313.75
IAS ANTRLY-D	1RU dual antenna relay for FR9010/9020	$ 945.00	$ 592.99
IAS ANTRLY-S	1RU single antenna relay for FR9010/9020	$ 520.00	$ 326.30
IAS BC-RHADPTR	100-240V charger adapter for use with the IAS OPC-RHUSB	$ 70.00	$ 43.93

Model	Description	Retail	State Price
IAS BC-RHCHG1	100-240V single unit charger for RedHawk mic	$ 105.00	$ 65.89
IAS BC-RHCHG12	100-240V 12 unit charger for the RedHawk mics	$ 1,000.00	$ 627.50
IAS BP-RHBATT1	3.8V 1200mAh battery for RedHawk mic	$ 45.00	$ 28.24
IAS COAX RLY KIT FR3000	Antenna relay kit for FR3000/4000 (for base station applications)	$ 422.00	$ 264.81
IAS CP-RHLP	12-24V cigarette lighter plug requiring 2 USB cables	$ 60.00	$ 37.65
IAS CROSSBAND CONTROLLER	Analog gateway that provides an easy migration path from analog to digital technology	$ 501.00	$ 314.38
IAS CS-RHSW	Utility software to upload stored tracks, optional PC programming, online demos. One per customer	$ 120.00	$ 75.30
IAS DATA BUS CABLE	Data Buss Cable, RJ-45 Connectors, Cut To Length. Sold Only In IAS Designed And Built Systems.	$ 22.00	$ 13.81
IAS DVN 4522L	400-512MHz 4 cavity duplexer, 3 min split for the IAS 100W analog repeater	$ 1,730.00	$ 1,085.58
IAS FR5000 DP KIT 140-145	140-145MHz internal duplexer for the FR5000 (5MHz minimum separation)	$ 583.33	$ 366.04
IAS FR5000 DP KIT 150-155	150-155MHz internal duplexer for the FR5000 (5MHz minimum separation)	$ 583.33	$ 366.04
IAS FR5000 DP KIT 150-159	150-159MHz internal duplexer for the FR5000 (9MHz minimum separation)	$ 583.33	$ 366.04
IAS FR5000 DP KIT 152-155	152-155MHz internal duplexer for the FR5000 (3MHz minimum separation)	$ 583.33	$ 366.04
IAS FR5000 DP KIT 160-165	160-165MHz internal duplexer for the FR5000 (5MHz minimum separation)	$ 583.33	$ 366.04
IAS FR6000 DP KIT 400-405	400-405MHz internal duplexer for the FR6000 01 (5MHz minimum separation)	$ 583.33	$ 366.04
IAS FR6000 DP KIT 440-445	440-445MHz internal duplexer for the FR6000 01 (5MHz minimum separation)	$ 583.33	$ 366.04
IAS FR6000 DP KIT 457-462	457-462MHz internal duplexer for the FR6000 (5MHz minimum separation)	$ 583.33	$ 366.04
IAS INTERFACE CABLE	Multi-Application Interface Cable. Sold Only In IAS Designed And Built Systems.	$ 63.00	$ 39.53
IAS OPC-RHI14	RedHawk 14-pin cable connects GPS mic to radio (works in analog, P25 digital and IDAS)	$ 275.00	$ 172.56
IAS OPC-RHI1D	RedHawk cable connects GPS mic to P25 mobile radios (works in both analog and P25 digital)	$ 225.00	$ 141.19
IAS OPC-RHI2	RedHawk 2-pin cable connects GPS mic to radio	$ 93.00	$ 58.36
IAS OPC-RHI9	RedHawk 9-pin cable connects GPS mic to radio (works in analog only)	$ 99.00	$ 62.12
IAS OPC-RHUSB	USB cable to connect mic with PC or charger adapter. One comes with each microphone.	$ 30.00	$ 18.83
IAS REDHAWK	Speaker microhpone with GPS receiver. LCD display shows basic orientation of all members within a group. Battery & USB cable included. Cable that hooks from microphone to radio is required.	$ 584.00	$ 366.46
IAS RF JUMPER	IAS RF JUMPER Custom Cut Jumpe r- LMR-200 or 400 N Connectors	$ 83.00	$ 52.08
IAS UHF DUP KIT 400-405	400-405 MHz Duplexer Installation Kit	$ 583.33	$ 366.04
IAS UHF DUP KIT 400-408	400-408 MHz Duplexer Installation Kit	$ 583.33	$ 366.04
IAS UHF DUP KIT 415-420	415-420 MHz Duplexer Installation Kit	$ 583.33	$ 366.04
IAS UHF DUP KIT 440-445	440-445 MHz Duplexer Installation Kit	$ 583.33	$ 366.04
IAS UHF DUP KIT 457-462	457-462MHz internal notch type duplexer for FR4000 (5MHz minimum separation)	$ 583.33	$ 366.04
IAS VHF DUP KIT 139-148	139-148 MHz Duplexer Installation Kit	$ 583.33	$ 366.04
IAS VHF DUP KIT 140-145	140-145 MHz Duplexer Installation Kit	$ 583.33	$ 366.04
IAS VHF DUP KIT 150-153	50-153 MHz Duplexer Installation Kit	$ 583.33	$ 366.04
IAS VHF DUP KIT 150-155	150-155MHz internal notch type duplexer for FR3000 (3MHz minimum separation)	$ 583.33	$ 366.04
IAS VHF DUP KIT 150-159	150-159MHz internal notch type duplexer for FR3000 (3MHz minimum separation)	$ 583.33	$ 366.04
IAS VHF DUP KIT 152-155	152-155MHz internal notch type duplexer for FR3000 (3MHz minimum separation)	$ 583.33	$ 366.04
IAS VHF DUP KIT 160-165	160-165 MHz Duplexer Installation Kit	$ 583.33	$ 366.04
IAS VHF DUP KIT 165-168	165-168 MHz Duplexer Installation Kit	$ 583.33	$ 366.04
IA-TC100A	Travel charger piece the BC-160/BC-171 fits into. Req CP1/CP17L or OPC515L	$ 45.00	$ 28.24
IA-TC100B	Travel charger piece the BC-160/BC-171 fits into. Req CP1/CP17L or OPC515L	$ 45.00	$ 28.24
ICT 180S-12IRC	180 AMP, Ethernet Comm. Port Allows Remote Site Monitoring. 12V/24V, Fused Output Positions	$ 1,676.00	$ 1,051.69
ICT 22012-20A	Second power supply module for ICT 22012-20AR	$ 340.00	$ 213.35
ICT 22012-20AR	External rack mountable power supply	$ 475.00	$ 298.06
ICT 22012-20BCR	Single module power supply - rack mountable	$ 712.00	$ 446.78
ICT 22012-30N	Additional module (mounts instead the ICT 22012-70N)	$ 388.00	$ 243.47
ICT 22012-35N	Single module power supply - rack mountable (4 module capable)	$ 1,199.00	$ 752.37
ICT 22012-70N	Dual module power supply - rack mountable (4 module capable)	$ 1,587.00	$ 995.84
ICT CS120-12AG/IC010	110V power supply and cabinet for base station use for A110	$ 185.00	$ 116.09
ICT CS120-20A/IC06	110V power supply & cabinet for control station use on P25 radios	$ 230.00	$ 144.33
ICT CS120-20AG/IC04	110V power supply and cabinet for control station use for F5011/5021/F5121/F5220	$ 230.00	$ 144.33
ICT CS120-20AG/IC09	110V power supply and cabinet for control station use for F5061/6061	$ 230.00	$ 144.33
ICT CS120-30A/IC08	110V power supply and cabinet for control station use for F9511HT	$ 700.00	$ 439.25
ICT IC010 220V	220V power supply and cabinet for control station use for A110	$ 210.00	$ 131.78
ICT IC04 220V	220V power supply and cabinet for control station use for F5011/5021	$ 255.00	$ 160.01
ICT IC06 220V	220V power supply & cabinet for control station use on P25 radios	$ 255.00	$ 160.01
ICT IC09 220V	220V power supply and cabinet for control station use for F5061/6061	$ 255.00	$ 160.01
ICT RMB LARGE	Bracket for second power supply (use with ICT 22012-20A)	$ 26.00	$ 16.32
IMPACT HD3-I3	Heavy duty speaker mic w/3.5mm accessory jack (2-pin screw down connector)	$ 59.00	$ 37.02
IMPACT HD3-I5	Heavy duty use speaker mic with 3.5mm accessory jack (9-pin)	$ 76.00	$ 47.69
IMPACT HD3-I6	Lightweight heavy duty use speaker mic with 3.5mm accessory jack (14-pin connector)	$ 98.00	$ 61.50
JPSPTG10	Pilot tone generator for analog operation only (requires ASAP mounting plate for installation)	$ 980.67	$ 615.37
JPSSVM2	Voter Module Assembly	$ 1,618.57	$ 1,015.65
K220A	Aviation mobile antenna with a magnetic mount	$ 75.00	$ 47.06
K220C	Aviation mobile antenna with a rooftop hole mount	$ 60.00	$ 37.65
KA KVL125	KVL unit powered by 9-volt battery	$ 3,185.00	$ 1,998.59
KLEIN DOUBLE AGENT-S8	2-Wire Kit D-Ring Earloop for F50/F60	$ 70.00	$ 43.93
KLEIN SCORPION	Listen Only earloop/earbud that plugs into speaker microphone	$ 17.00	$ 10.67
LAIRD EXH 160 MXI	155-160MHz antenna	$ 26.00	$ 16.32
LARSEN SPHL10160IC	155-160MHz antenna	$ 26.00	$ 16.32
LC146A	R5/R6 carrying case	$ 30.00	$ 18.83
LC158	R20 carrying case	$ 45.00	$ 28.24

Model	Description	Retail	State Price
LC159	Leather carrying case for the A6/A24	$ 43.00	$ 26.98
LC168	92AD Carrying Case	$ 35.00	$ 21.96
LC174	T70A carrying case	$ 45.00	$ 28.24
LC178	Carrying case for ID-31A	$ 45.00	$ 28.24
LC179	Carrying case for ID51A	$ 35.00	$ 21.96
LCF14 LOOP	Leather carrying case with a loop F14/24 & F3011/4011 radios	$ 38.00	$ 23.85
LCF14 SWIVEL	Leather carrying case with a swivel F14/24 & F3011/4011 radios	$ 50.00	$ 31.38
LCF21 CLIP	Leather carrying case with a clip F11/21 radios	$ 45.00	$ 28.24
LCF3000 SWIVEL	Leather carrying case with a swivel for the F3001/4001 & F3101D/4101D radios	$ 50.00	$ 31.38
LCF3021S CLIP	Leather carrying case with a clip and cutout for the display	$ 45.00	$ 28.24
LCF3021S LOOP	Leather carrying case with a loop and cutout for the display	$ 38.00	$ 23.85
LCF3021S SWIVEL	Leather carrying case with a metal swivel clip and cutout for the display	$ 50.00	$ 31.38
LCF3021T CLIP	Leather carrying case with a clip and cutout for display and keypad	$ 45.00	$ 28.24
LCF3021T SWIVEL	Leather carrying case with a metal swivel clip and cutout for display and keypad	$ 50.00	$ 31.38
LCF3061S CLIP	Leather carrying case with a clip and cutout for display only F3161/4161 series	$ 45.00	$ 28.24
LCF3061S LOOP	Leather carrying case with a loop and cutout for the display	$ 38.00	$ 23.85
LCF3061S SWIVEL	Leather case for the F3161/4161 with a swivel clip	$ 50.00	$ 31.38
LCF3061T CLIP	Leather case for the F3161/4161 with a clip	$ 45.00	$ 28.24
LCF3061T SWIVEL	Leather case for the F3161/4161 with a full keypad cutout with a swivel belt clip	$ 50.00	$ 31.38
LCF3261S SWIVEL	Leather carrying case with a swivel clip and cutout for the display for F3261	$ 50.00	$ 31.38
LCF3261T SWIVEL	Leather carrying case with a swivel clip and cutout for the DTMF keypad for F3261 series	$ 50.00	$ 31.38
LCF33 SWIVEL	Leather carrying case with a swivel loop and cutout for the display	$ 50.00	$ 31.38
LCF50 CLIP	Leather carrying case with a metal clip and cutout for the display	$ 45.00	$ 28.24
LCF50 LOOP	Leather carrying case with a loop and cutout for the display	$ 38.00	$ 23.85
LCF50 SWIVEL	Leather carrying case with a loops swivel and cutout for the display	$ 50.00	$ 31.38
LCF70 CLIP	Leather case with a metal clip and keypad cutout for the F70/80 series radios. Case is not IS approved with any of our IS radios.	$ 45.00	$ 28.24
LCF70 LOOP	Leather case with a belt loop and keypad cutout for the F70/80 series radios. Case is not IS approved with any of our IS radios.	$ 38.00	$ 23.85
LCF70 SWIVEL	Leather case with a swivel belt loop and keypad cutout for the F70/80 series radios. Case is not IS approved with any of our IS radios.	$ 50.00	$ 31.38
LCF70S LOOP	Leather case with a belt loop for the F70/80 series radios. Case is not IS approved with any of our IS radios.	$ 38.00	$ 23.85
LCF70S SWIVEL	Leather case with a swivel belt loop for the F70/80 series radios. Case is not IS approved with any of our IS radios.	$ 50.00	$ 31.38
LCF9011S SWIVEL	Leather carrying case with a swivel clip for the F9011/9021 radios without a full keypad	$ 50.00	$ 31.38
LCF9011T SWIVEL	Leather carrying case with a swivel clip for the F9011T/9021T radios with a full keypad cutout	$ 50.00	$ 31.38
LCM72S	M72 leather case with a swivel belt clip	$ 40.00	$ 25.10
LCM88L	M88 Leather Case With Loop	$ 40.00	$ 25.10
LCM88S	M88 Leather Case With Swivel	$ 40.00	$ 25.10
M422 DUST COVER	Dust cover for the M422 & M412	$ 17.00	$ 10.67
M422 MMB	Black mounting bracket for M412/M422	$ 27.00	$ 16.94
M422SW MMB	Mounting bracket super white M412/M422	$ 27.00	$ 16.94
M504B MMB	Black mounting bracket for M504/M502	$ 29.00	$ 18.20
M504G MMB	Gray mounting bracket for M504/M502	$ 29.00	$ 18.20
M602 MMB	Black Mounting Bracke M602 01	$ 29.00	$ 18.20
M604G MMB	Gray mounting bracket for M604	$ 29.00	$ 18.20
M802 CHEA	An adaptor that allows 2 control cables to be hooked together for long distance between the head	$ 23.00	$ 14.43
M802 MMB	Mounting Bracket M802	$ 54.00	$ 33.89
MA500TR KIT	AIS Transponder & MX-G500 GPS receiver	$ 1,500.00	$ 785.25
MB103	Alligator belt clip	$ 12.50	$ 7.84
MB103Y	Yellow alligator belt clip for the GM1600	$ 14.00	$ 8.79
MB105A	Bracket for mounting the remote head for the IC-7000 to use with the MBF-1	$ 30.00	$ 18.83
MB106	Carry Handle for 7000	$ 27.00	$ 16.94
MB107	Standard belt clip for the 91A/AD	$ 10.00	$ 6.28
MB109	Belt clip for the M34/M36/M92D	$ 9.00	$ 5.65
MB111	Standard belt clip for the 92AD	$ 20.00	$ 12.55
MB115	Standard belt clip for F9011 series	$ 10.00	$ 6.28
MB116	Front handles for the 7200	$ 92.00	$ 57.73
MB117	Carry handle and mounting hardware for the IC-7200	$ 30.00	$ 18.83
MB118	Mounting bracket for the IC-7200	$ 30.00	$ 18.83
MB123	Carrying handle for 9100 & 7410	$ 35.00	$ 21.96
MB124	Alligator type belt clip	$ 12.00	$ 7.53
MB126	Mounting bracket for F8101	$ 300.00	$ 188.25
MB127	Alligator belt clip	$ 25.00	$ 15.69
MB130	Vehicle charger bracket designed to hold a rapid charger allowing battery to charge while in a vehicle. Requires charger & CP17L. Will not work with the BC119N.	$ 83.00	$ 52.08
MB132	Flush mount kit for M424	$ 37.00	$ 23.22
MB133	Alligator type belt clip	$ 17.00	$ 10.67
MB23	Carry handle and mounting hardware for the IC-77/707/821H/R8500/R75	$ 20.00	$ 12.55
MB28H	Universal mounting bracket for smaller Amateur mobiles. Radio Width 141mm (5.5”) screw spacing 50mm (2.0”) One radio mounting hole fixed, one adjustable.	$ 29.00	$ 18.20
MB53 02	Mobile mounting bracket that includes HM176 microphone, SP35 external speaker and harness for A200 & A210	$ 500.00	$ 313.75
MB62	Main Unit mounting bracket for the IC-706 Series, IC-703 Series, IC-7000	$ 50.00	$ 31.38

Model	Description	Retail	State Price
MB69	Flush mount kit for mounting controller or speaker to a panel	$ 37.00	$ 23.22
MB74N	Alligator Clip for BP209 & BP210 (non N version batteries)	$ 12.00	$ 7.53
MB75	Flush mount kit for mounting controller or speaker to a panel	$ 35.00	$ 21.96
MB77	FR3000/4000 wall mount bracket	$ 130.00	$ 81.58
MB86	Swivel belt clip that screws into back of radio	$ 11.00	$ 6.90
MB87	Swivel belt clip	$ 10.00	$ 6.28
MB93	Swivel belt clip	$ 11.00	$ 6.90
MB94	Alligator belt clip	$ 10.50	$ 6.59
MB94R	Alligator belt clip with long clip that angles the antenna/top of radio off the body	$ 18.00	$ 11.30
MB96F	Leather belt hanger. Use with the MB103/Y, MB94 or MB98.	$ 35.00	$ 21.96
MB96N	Swivel belt hanger. Use with the MB103/Y, MB94 or MB98.	$ 37.00	$ 23.22
MB98	Standard belt clip for the F50/60 & M88	$ 13.00	$ 8.16
MBA1	Controller bracket for 7100	$ 40.00	$ 25.10
MBA2	Remote head mounting bracket for the ID5100A	$ 40.00	$ 25.10
MBF1	Remote head mount. Adhesive pad and adjustable pivot points securely holds it to a flat surface or	$ 85.00	$ 53.34
MBF4	Mounting bracket for the ID5100	$ 35.00	$ 21.96
MN100	Antenna matcher. Matches the transceiver to a dipole antenna. Covers all HF bands from 1.5 to 30MHz. Two 8m antenna wires come standard.	$ 480.00	$ 301.20
MN100L	Antenna matcher. Matches the transceiver to a long wire antenna. Covers all HF bands from 1.5 to 30mhz. One 15m antenna comes standard.	$ 455.00	$ 285.51
MOUNT 1	NMO Permanent Mount, 17ft RG58 cable, no connector	$ 23.00	$ 14.43
MOUNT 2	Trunk Lid Mount/HD, BRKT, 45 DEG CBL, 58A/U PL259	$ 35.00	$ 21.96
MOUNT 3	Black Magnetic Mount - 3 1/4" diameter, 12ft RG58 cable w/PL259 connector	$ 42.00	$ 26.36
MSA 1421-00LRM	Locking trunnion for F5061/6061	$ 53.00	$ 33.26
MXP5000 01	Main processor unit for Marine Commander	$ 4,799.00	$ 2,512.28
NCF14 CLIP	Nylon carrying case with a clip F14/24 & F3011/4011 radios	$ 27.00	$ 16.94
NCF14 LOOP	Nylon carrying case with a loop F14/24 & F3011/4011 radios	$ 25.00	$ 15.69
NCF21 LOOP	Nylon carrying case with a loop F11/21 radios	$ 25.00	$ 15.69
NCF3000 CLIP	Nylon carrying case with a clip for the F3001/4001 & F3101D/4101D radios	$ 27.00	$ 16.94
NCF3021S CLIP	Nylon carrying case with a clip and cutout for the display	$ 27.00	$ 16.94
NCF3021S LOOP	Nylon carrying case with a loop and cutout for the display	$ 25.00	$ 15.69
NCF3021T CLIP	Nylon carrying case with a clip and cutout for the display and keypad	$ 27.00	$ 16.94
NCF3061S CLIP	Nylon case with a clip for the F3161S/4161S radios without a DTMF cutout	$ 27.00	$ 16.94
NCF3061S LOOP	Nylon case with a loop for the F3161S/4161S radios without a DTMF cutout	$ 25.00	$ 15.69
NCF3061T CLIP	Nylon carrying case with a clip for the F3161T/4161T radios with a full keypad	$ 27.00	$ 16.94
NCF3061T LOOP	Nylon carrying case with a loop for the F3161T/4161T radios with a full keypad	$ 25.00	$ 15.69
NCF30G CLIP	Nylon carrying case with a clip for the F30G/40G & M36 radios	$ 30.00	$ 18.83
NCF30G LOOP	Nylon carrying case with a loop for the F30G/40G & M36 radios	$ 25.00	$ 15.69
NCF3261S CLIP	Nylon carrying case with a clip and cutout for the display for F3261 series	$ 27.00	$ 16.94
NCF3261T CLIP	Nylon carrying case with a clip and cutout for the DTMF keypad for F3261 series	$ 27.00	$ 16.94
NCF70 CLIP	Nylon carrying case with a clip for the F70/80 radios with a full keypad cutout	$ 27.00	$ 16.94
NCF70 LOOP	Nylon carrying case with a loop for the F70/80 radios with a full keypad cutout	$ 25.00	$ 15.69
NCF9011S CLIP	Nylon carrying case with a clip for the F9011/9021 radios without a full keypad	$ 30.00	$ 18.83
NCF9011T CLIP	Nylon carrying case with a clip for the F9011T/9021T radios with a full keypad	$ 30.00	$ 18.83
NCM88	Nylon carrying case with a clip for the F50/60 & M88 radios	$ 26.00	$ 16.32
NCP1	Nylon chest pack	$ 44.00	$ 27.61
OPC025A	12V DC power cord	$ 45.00	$ 28.24
OPC025D	12V DC power cord with 6-pin connector for HF radios	$ 45.00	$ 28.24
OPC1000	6.1m/20ft extension cable to use with the HM126RB/RG (mounting hardware req.)	$ 49.00	$ 30.75
OPC1069A	Ethernet cable for the IDRP products	$ 15.00	$ 9.41
OPC1106	Seperation cable between controller and main unit (16.4ft) for M802	$ 45.00	$ 28.24
OPC1107A	M802 Main Unit DC PC	$ 28.00	$ 17.57
OPC1122	PC to radio programming cloning cable for mobile radios with RC-232S connector.	$ 99.00	$ 62.12
OPC1122U	PC to radio programming cloning cable for mobile radios with USB connector.	$ 99.00	$ 62.12
OPC1132	DC power cable. Comes standard with most mobile radios (9.8ft) and has a 2-pin T connector	$ 45.00	$ 28.24
OPC1147N	Shielded control cable to connect the M802 to the AT140 (10m)	$ 79.00	$ 49.57
OPC1154A	3.5m front panel separation cable	$ 20.00	$ 12.55
OPC1156	Remote head extension cable (3.5m)	$ 22.00	$ 13.81
OPC1174	M602 DC Power Cord	$ 14.00	$ 8.79
OPC1309	DC cable for IDRP products	$ 32.00	$ 20.08
OPC1380	Power cable for the IDRP products	$ 62.00	$ 38.91
OPC1392	M72/GM1600 Headset adapter to use HS94/95/97. Use with M72/GM1600/M90	$ 75.00	$ 47.06
OPC1443	Remote head cable (3.5m)	$ 75.00	$ 47.06
OPC1444	Remote head cable (7m)	$ 110.00	$ 69.03
OPC1457	DC power cord with 4-pin connector for HF radios	$ 55.00	$ 34.51
OPC1529R	Data cable (RS232 to 3.5mm)	$ 41.00	$ 25.73
OPC1532	Radio to radio cloning cable between P25 mobile radios	$ 42.00	$ 26.36
OPC1533	Radio to radio cloning cable between F1721/2721/D series mobiles & F70/80/D portable radios	$ 88.00	$ 55.22
OPC1534	Key Loader cable connects KVL3000Plus cable to Radio. For portables: requires OPC-1871 & RJ45 to RJ45 female-female modular adapter part#5610000510	$ 225.00	$ 141.19
OPC1536	Radio to radio cloning cable between F70/80/D portable radios	$ 123.00	$ 77.18
OPC1540	6.1m/20ft connection cable to use with the COMMANDMIC III/IV	$ 90.00	$ 56.48
OPC1541	6.1m/20ft extension cable to use with the COMMANDMIC III/IV with the OPC1540. Up to 2 OPC-1541 can be connected.	$ 49.00	$ 30.75

Model	Description	Retail	State Price
OPC1542	Extension cable for rear panel mic connections. Use with the HM-126RG/RG microphone.	$ 49.00	$ 30.75
OPC1655	Cloning cable adapter for M36	$ 47.00	$ 29.49
OPC1663	Separation Cable-2820H	$ 18.00	$ 11.30
OPC1712	Remote head cable (3.5")	$ 11.00	$ 6.90
OPC1797	Microphone adapter cable connects multipin to SP/Mic connectors	$ 60.00	$ 37.65
OPC1862	PC to radio programming cloning cable with USB connector for radios with 14-pin connector	$ 189.00	$ 118.60
OPC1870	Radio to radio cloning cable between two 14-pin connector portable radios	$ 125.00	$ 78.44
OPC1871	Radio to radio cloning cable between 14-pin connector portable & mobile radio	$ 110.00	$ 69.03
OPC1939	D-Sub 15-pin ACC cable. Connects with a PC, external speaker, external channel control, ignition sense line or vehicle horn	$ 95.00	$ 59.61
OPC1954	Power cable for the MXA5000	$ 12.00	$ 7.53
OPC2004	Adapter plug to to use the HS94/95/97 for the F3001/4001/3101D/4101D & V80	$ 30.00	$ 18.83
OPC2006	Adapter plug to to use the HS94/95/97 for the T70A	$ 25.00	$ 15.69
OPC2006LS	Adapter plug to to use the HS94/95/97	$ 35.00	$ 21.96
OPC2078	D-Sub 25-pin ACC cable. Connects with a PC, external speaker, external channel control, ignition sense line or vehicle horn	$ 120.00	$ 75.30
OPC2091	Cloning cable adapter for M24	$ 35.00	$ 21.96
OPC2144	Right angle plug adapter cable to plug old straight pin connector headsets into (required to use with OPC478 when programming radios)	$ 35.00	$ 21.96
OPC2204	Cloning cable F8101	$ 200.00	$ 125.50
OPC2218LU	Cloning/data cable (USB) ID31A	$ 75.00	$ 47.06
OPC2253	3.5m (11ft) separation cable	$ 75.00	$ 47.06
OPC2254	3.5m (11ft) separation cable	$ 95.00	$ 59.61
OPC2273	5m audio connection cable between the VEPG3 and the M604A (Waterproof 8-pin connector).	$ 150.00	$ 94.13
OPC2274	5m audio connection cable between the VEPG3 and the FR5000 series (D-SUB 25-pin connector). For use only with systems that do not utilize tones or RAN's for squelching.	$ 235.00	$ 147.46
OPC2275	5m audio connection cable between the VEPG3 and the F5061/D series and A110 (RJ-45 modular plug connector with speaker plug).	$ 150.00	$ 94.13
OPC2308	GPS/External modem connection cable	$ 175.00	$ 109.81
OPC2309	Antenna tuner control cable for AT-140/AH-740/AH-760 for F8101 (10M or 32.8ft)	$ 170.00	$ 106.68
OPC2321	Control cable adapter to 4 pin type for AH740	$ 175.00	$ 109.81
OPC254L	Power supply cable for use with external power supply; 10-14V DC required for high power output	$ 20.00	$ 12.55
OPC344	A110 Std Power Cord	$ 16.00	$ 10.04
OPC346	Power cable for the 281H DELTA 100H 2000H F320S F420S F1020 2710H	$ 45.00	$ 28.24
OPC347	DC power cable (23ft)	$ 70.00	$ 43.93
OPC440	Mic extension cable (RJ-45 M/F) (16.4ft)	$ 100.00	$ 62.75
OPC441	Speaker extension cable (16.4ft)	$ 44.00	$ 27.61
OPC474	Radio to radio cloning cable (3.5mm to 3.5mm)	$ 20.00	$ 12.55
OPC478	PC to handheld programming cable with RS-232S connector for radios with 2-pin connectors	$ 60.00	$ 37.65
OPC478UC	PC to handheld programming cable with USB connector for radios with 2-pin connectors	$ 70.00	$ 43.93
OPC510	AC power cable for the 7800/7700	$ 30.00	$ 18.83
OPC515L	DC power cable for single unit rapid chargers	$ 26.00	$ 16.32
OPC589	Microphone adapter cable (8 pin to RJ-45)	$ 45.00	$ 28.24
OPC592	Programming cloning cable for PC to radio (must use with OPC-478/UC)	$ 17.00	$ 10.67
OPC599	Cable adapter converts 13-pin ACC connector to 7-pin & 8-pin ACC connector	$ 80.00	$ 50.20
OPC607	3m/9.8ft separation cable for remote mounting kits	$ 57.00	$ 35.77
OPC608	8m/26.2ft separation cable for remote mounting kits	$ 76.00	$ 47.69
OPC609	1.9m/6.2ft separation cable for remote mounting kits	$ 55.00	$ 34.51
OPC617	Accesory cable for external terminal connection	$ 65.00	$ 40.79
OPC656	DC power cable for BC121N or BC197 gang chargers	$ 12.00	$ 7.53
OPC726	5m/16.4ft separation cable for remote mounting kits	$ 65.00	$ 40.79
OPC871	A110 Headset Adapter	$ 154.00	$ 96.64
OPC891A	M504/M422 power cord	$ 12.00	$ 7.53
OPC-9000	Programming cable for the FR9010/9020 repeaters	$ 270.00	$ 169.43
OPC922	Cloning cable adapter for M72/M73/M92D	$ 65.00	$ 40.79
OPC966	PC to radio programming cloning cable with RC-232S connector for radios with 9-pin connector	$ 168.00	$ 105.42
OPC966U	PC to radio programming cloning cable with USB connector for radios with 9-pin connector	$ 168.00	$ 105.42
OPC980	Cloning cable adapter for M504/M604	$ 31.00	$ 19.45
OPC999	6.1m/20ft extension cable to use with the COMMANDMIC II with the OPC-1000. Up to 2 OPC-999 can be connected.	$ 49.00	$ 30.75
OPC-IAKVL1	Interface Cable with RJ45 Connector for P25 mobiles	$ 150.00	$ 94.13
OPC-IAKVL14	Interface Cable with 14 Pin Connector for F9011/F9021	$ 230.00	$ 144.33
OPC-IAKVL9	Interface Cable with 9 Pin Connector for F70D/F80D	$ 200.00	$ 125.50
OTTO E1EB2CC131	1-wire kit with earbud and in-line mic with 2-pin right angle connector	$ 10.00	$ 6.28
OTTO E1ET2CS131	2-wire D-hanger with in line mic/ptt with 2-pin right angle connector	$ 32.00	$ 20.08
OTTO V110282	Speaker mic earpiece(2.5mm straight plug)	$ 50.00	$ 31.38
OTTO V110396	3-wire mini lapel mic kit (earphone/cable with mic/cable with barrel style PTT) with 2.5/3.5mm straight connector - F3/S/F4/S	$ 170.00	$ 106.68
OTTO V110432	Speaker mic earpiece (2.5mm right angle plug)	$ 60.00	$ 37.65
OTTO V110433	Speaker mic earpiece (3.5mm right angle plug)	$ 60.00	$ 37.65
OTTO V110519	Barrel PTT - connects to headsets with pigtail	$ 120.00	$ 75.30

Model	Description	Retail	State Price
OTTO V110602	3-wire mini lapel mic kit (earphone/cable with mic/cable with barrel style PTT) with 9-pin connector for F30G/F40G/M88 only	$ 185.00	$ 116.09
OTTO V110756	2-Wire palm mic kit with 2-pin right angle screw down connector	$ 98.00	$ 61.50
OTTO V110822	2-Wire palm mic kit (earphone cable and mic/ptt cable) with 9-pin connector	$ 125.00	$ 78.44
OTTO V1T12CD137	Throat Mic Sys w/tube ear piece and body PTT with 9 pin connector for F30G/40G	$ 505.00	$ 316.89
OTTO V1T12CS117	Throat mic system w/acoustic tube ear piece and 80mm body PTT with right angle 2-pin right angle	$ 595.00	$ 373.36
OTTO V210200	Evolution heavy duty mic with hi/lo volume switch, 2.5mm earphone jack and 2-pin right angle connector	$ 93.00	$ 58.36
OTTO V210272	Genesis waterproof mic with removable front grill cover. Mic output -44dBV. Nine pin connector	$ 180.00	$ 112.95
OTTO V210273-S	H2O Evolution style IS rated with hi/lo volume switch (IP68)	$ 166.00	$ 104.17
OTTO V210274-S	Evolution style IS rated with hi/lo volume switch and 2.5mm earphone jack	$ 164.00	$ 102.91
OTTO V210288	Evolution heavy duty mic with hi/lo volume switch, 2.5mm earphone jack and 2-pin right angle screw down connector	$ 113.00	$ 70.91
OTTO V210314	Evolution heavy duty mic with hi/lo volume switch, 2.5mm earphone jack and 9-pin connector	$ 140.00	$ 87.85
OTTO V210315	Evolution heavy duty mic with hi/lo volume switch and 9-pin connector immersion rated IP68	$ 140.00	$ 87.85
OTTO V2C2CS11	Legacy speaker microphone (2-pin screw down connector)	$ 48.00	$ 30.12
OTTO V2G2CD211	Genesis waterproof speaker mic with 9-pin connector for F30G/F40G/M88 only	$ 160.00	$ 100.40
OTTO V2L2CC11	Profile speaker mic with 2-pin right angle connector	$ 88.00	$ 55.22
OTTO V2L2CM11	Profile speaker mic with 9-pin connector	$ 115.00	$ 72.16
OTTO V2L2CS11	Profile speaker mic with 2.5mm earphone jack and 2-pin right angle screw down connector	$ 93.00	$ 58.36
OTTO V410395	Behind-the-head style, noise attenuating headset (2-pin right angle connector)	$ 360.00	$ 225.90
OTTO V410399	Skull Mic System w/earcup and 80mm body PTT for F30G/40G and M88	$ 650.00	$ 407.88
OTTO V410469-S	Over-the-head style, noise attenuating headset, IS approved	$ 445.00	$ 279.24
OTTO V410470-S	Behind-the-head, noise attenuating headset, IS approved	$ 520.00	$ 326.30
OTTO V410479	Lightweight single speaker headset (2-pin screw down connector)	$ 121.00	$ 75.93
OTTO V410480	Over the head style w/ NC Boom Mic, in-line ptt (2-pin screw down connector)	$ 350.00	$ 219.63
OTTO V410514	Lightweight single speaker w/in-line ptt, padded headband (9-pin connector)	$ 155.00	$ 97.26
OTTO V4BA2CS1	Breeze behind-the-head headset, single speaker with left boom mic with 2-pin right angle screw down connector	$ 107.00	$ 67.14
OTTO V4EX2CC5	Explorer lightweight headset with flexible earloop w/boom mic (2-pin right angle connector)	$ 90.00	$ 56.48
OTTO V4EX2CS5	Explorer lightweight headset with flexible earloop w/boom mic (2-pin right angle screw down connector)	$ 145.00	$ 90.99
OTTO V4NR2CM1	Ranger single ear behind-the-head headset with 9-pin connector	$ 455.00	$ 285.51
PA OPC499	Headset adapter	$ 60.00	$ 37.65
PS125 02	110/120VAC 13.8V DC 25A 6-pin connector	$ 446.00	$ 351.23
PS126 12	110/120VAC 13.8VDC 25A 4-pin connector	$ 499.00	$ 392.96
PS80 04	A200 power supply w/HM176	$ 1,040.00	$ 652.60
PTT SW	Avionic PTT switch. Plugs into your headset.	$ 28.00	$ 17.57
PW LF-1	Noise filter to use with the F5061D with the UT-IA100 already installed.	$ 55.00	$ 34.51
PW1U 01	1KW Linear Amp	$ 6,499.00	$ 5,117.96
RC25	Remote controller head for M802	$ 441.00	$ 276.73
RC28	Remote control USB encoder	$ 296.00	$ 233.10
RCFS10 25	Remote Communicator software + CT-24 (digital voice converter unit - each IDAS system requires	$ 1,995.00	$ 1,251.86
RFFM1	Fan module for RFT repeaters (recommended for 100W units)	$ 300.00	$ 188.25
RFT E2-EXT-REF-CABLE	External Reference Input	$ 245.00	$ 153.74
RFT IP E2-P25	Programming software for RFT 100W P25/analog repeaters	$ 445.00	$ 205.88
RFT P25 UHF MANUAL	RFT UHF P25/analog manual (included with repeater purchase)	$ 112.00	$ 70.28
RFT P25 VHF MANUAL	RFT VHF P25/analog manual (included with repeater purchase)	$ 112.00	$ 70.28
RFT P25-C	P25 firmware upgrade for RFT analog P25 upgradeable repeaters	$ 3,428.00	$ 1,588.24
RMK2	F1721/1821 bracket & face plate for remote mounting. Separation cable not included	$ 145.00	$ 90.99
RMK3 01	F5061/6061 bracket & face plate for remote mounting. Separation cable not included	$ 110.00	$ 69.03
RMK4 01	Dual head and separation kit for F9511HT. Requires external speaker and cable.	$ 860.00	$ 539.65
RMK6	Remote mount kit for the F8101. Separation cable sold separately.	$ 360.00	$ 225.90
RR FIRMWARE UPGRADE	Add 3.1 RR firmware to your IDAS radio	$ -	$ -
RS92	Remote control software for 92AD. Must use with OPC-1799 that comes with the software.	$ 110.00	$ 69.03
RSBA1	IP remote control software for amateur radios	$ 129.00	$ 80.95
RSID1	ID1 control software	$ 44.00	$ 27.61
RSMGR1	Remote system manager software for IDAS MultiTrunk	$ 4,995.00	$ 3,134.36
RSR75	Remote Cntrl Software	$ 100.00	$ 62.75
RSRP2 G2	Gateway software	$ 394.00	$ 310.28
SJ1	Silicone jacket case	$ 35.00	$ 21.96
SM26	Desktop microphone with monitor switch for mobile radios	$ 90.00	$ 56.48
SM30	Compact desktop microphone with low cut function	$ 195.00	$ 122.36
SM50	Desktop unidirectional microphone. Up/down switches and low cut function available.	$ 400.00	$ 251.00
SP13	Earphone for speaker mics/handhelds	$ 5.00	$ 3.14
SP22	5W small mobile rectangular external speaker (4Ohm)	$ 58.00	$ 36.40
SP23	External speaker with 4 audio filters; headphone jack (5W)	$ 265.00	$ 166.29
SP24	External speaker (4x4") for marine fixed mount radios (7W)	$ 57.00	$ 35.77
SP27	Acoustic tube earphone with a clip to attach to clothing	$ 35.00	$ 21.96
SP30	20W large external speaker	$ 110.00	$ 69.03
SP33	Base station speaker (4Ohm)	$ 120.00	$ 75.30
SP34	Base station high quality speaker with internal audio filters	$ 465.00	$ 291.79
SP35	5W external speaker with 3.5mm speaker jack and 2m cable	$ 60.00	$ 37.65
SPRING CLIP L	Long spring clip insert length 3.5 inches	$ 5.00	$ 3.14

Model	Description	Retail	State Price
SPRING CLIP S	Short spring clip insert length 2.5 inches	$ 5.00	$ 3.14
SS BC61	Mobile rapid charger with cigarette adapter for the F3161 & F3261 series	$ 215.00	$ 134.91
TEL TPRD 1554	VHF duplexer; 400 Kc minimum split	$ 2,375.00	$ 1,490.31
TEL TPRD 1556	VHF duplexer; 600 Kc minimum split	$ 3,850.00	$ 2,415.88
TPL PA3-1AE3-SMAS	136-174MHz SMAS PA Module 3-6WIn 100WOut	$ 2,905.00	$ 1,822.89
TPL PA31FERXRF-I	15-25W In, 75- 125W Out 100% Duty Cycle 150-174 MHz Auto Bypass 12V Operation	$ 2,141.00	$ 1,343.48
TPL PA31FERXRFPS-I	15-25W In, 80-150W Out VHF AC Power Supply and Auto Bypass	$ 2,354.00	$ 1,477.14
TPL PA3-2DF-HMS	HMS Series VHF 136-175Mhz 100% Duty Cycle	$ 11,061.25	$ 6,940.93
TPL PA6-1BE-MAS	8-15 W In- 75 - 100 Watts Out- 100% Duty Cycle Amplifier Module-400-512 Mhz	$ 1,826.00	$ 1,145.82
TPL PA61FERXRF-IA	15-25W In, 75- 125W Out 100% Duty Cycle 440-512 MHz Auto Bypass 12V Operation	$ 1,829.00	$ 1,147.70
TPL PA61FERXRFPS-I	15-25W In, 75-125W Out UHF AC Power Supply and Auto Bypass	$ 2,354.00	$ 1,477.14
TPL PA6-2AE6-SMAS	24V DC 100W UHF SMAS Amplifier	$ 3,370.00	$ 2,114.68
TSI RMP830A	Eight NEMA 5-20 Outlets, One Double Pole Single Throw 20 A Circuit Breaker 30 A Plug	$ 1,257.00	$ 788.77
TSI RMP915	Rack Mount A/C Surge Protector 15 Amp Plug MOV suppression	$ 331.00	$ 207.70
TSI RMP920A	Rack Mount A/C Surge Protector 20 Amp Plug MOV suppression	$ 407.00	$ 255.39
UCFR5000 01	Trunking/Network controller board (1 per repeater)	$ 500.00	$ 313.75
UT106	DSP unit	$ 195.00	$ 122.36
UT108	DTMF decoder and ANI board	$ 39.00	$ 24.47
UT108R	DTMF decoder, ANI unit	$ 39.00	$ 24.47
UT109 01	Non-rolling voice scrambler. Up to 32 codes available. Not compatible with radios using the UT-110.	$ 105.00	$ 65.89
UT109 02	Non-rolling voice scrambler. Up to 32 codes available. Not compatible with radios using the UT-110.	$ 105.00	$ 65.89
UT109R 21	Non-rolling voice scrambler. Up to 32 codes available. Not compatible with radios using the UT-110.	$ 105.00	$ 65.89
UT110 01	Rolling voice scrambler. Up to 1020 (255 codes x 4 groups) codes available.	$ 173.00	$ 108.56
UT110 02	Rolling voice scrambler. Up to 1020 (255 codes x 4 groups) codes available.	$ 173.00	$ 108.56
UT110R 21	Rolling voice scrambler. Up to 1020 (255 codes x 4 groups) codes available. Works only in analog mode.	$ 173.00	$ 108.56
UT112	Digital voice scrambling unit - 32 Codes	$ 160.00	$ 100.40
UT120 01	P25 upgrade board for F70/80 handhelds	$ 541.00	$ 339.48
UT120 02	P25 Hardware Upgrade Board - Mobiles	$ 541.00	$ 339.48
UT121	D-STAR digital board	$ 229.00	$ 143.70
UT122	P-25 digital unit	$ 299.00	$ 187.62
UT123	D-STAR digital/GPS unit with GPS antenna	$ 299.00	$ 187.62
UT124 01	Man down unit	$ 90.00	$ 56.48
UT124R 02	Man down unit	$ 90.00	$ 56.48
UT125 01	AES/DES encryption board with OTAR compliance for P25 Trunking radios	$ 695.00	$ 436.11
UT125 FIPS	AES/DES/FIPS encryption board with OTAR compliance for P25 Trunking radios	$ 789.00	$ 495.10
UT126H 03	6.25kHz digital module for F3161/4161 or F5061/6061 radios	$ 250.00	$ 156.88
UT128	DES encryption for P25 Trunking radios	$ 420.00	$ 263.55
UT133	Bluetooth unit	$ 99.00	$ 62.12
UT-IA100	Audio amp board (factory install ONLY; install included in price – F5061D only)	$ 100.00	$ 62.75
UT-IA321	SimpleTrack GPS card and antenna for F121 series radios	$ 110.00	$ 69.03
UX231	AIS receive board for M506	$ 200.00	$ 125.50
UX9100	1200MHz band unit	$ 824.00	$ 648.90
VEPG3	ROIP Gateway	$ 1,900.00	$ 1,192.25
VS1L	VOX/PTT case with 2-pin right angle connector. Must use with HS94/HS95/HS97	$ 44.00	$ 27.61
VS1MC	VOX/PTT case with 14-pin connector. Must use with HS94/HS95/HS97.	$ 84.00	$ 52.71
VS1SC	VOX/PTT case with 9-pin connector. Must use with HS94/HS95/HS97.	$ 68.00	$ 42.67
VS3	Bluetooth pendant earpiece microphone w/PTT	$ 149.00	$ 93.50
VS4LA	PTT switch cable to communicate using the HS94/95/97	$ 115.00	$ 72.16
OPTIONAL SERVICES			
EXTWARR211	EXTWARR211 1-yr Ext Warranty F3001 F3011 F14 F121 F50 F5021	$ 25.00	$ 15.69
EXTWARR212	EXTWARR212 2-yr Ext Warranty F3001 F3011 F14 F121 F50 F5021	$ 44.00	$ 27.61
EXTWARR213	EXTWARR213 3-yr Ext Warranty F3001 F3011 F14 F121 F50 F5021	$ 62.00	$ 38.91
EXTWARR611	EXTWARR611 1-yr Ext Warranty F3161 F4161 F5061 IDAS Digital	$ 40.00	$ 25.10
EXTWARR612	EXTWARR612 2-yr Ext Warranty F3161 F4161 F5061 IDAS Digital	$ 70.00	$ 43.93
EXTWARR613	EXTWARR613 3-yr Ext Warranty F3161 F4161 F5061 IDAS Digital	$ 110.00	$ 69.03
EXTWARR811	EXTWARR811 1-year Ext Warranty for all P25 Portable & Mobile Radios	$ 65.00	$ 40.79
EXTWARR812	EXTWARR812 2-year Ext Warranty for all P25 Portable & Mobile Radios	$ 93.00	$ 58.36
EXTWARR813	EXTWARR813 3-year Ext Warranty for all P25 Portable & Mobile Radios	$ 130.00	$ 81.58
EXTWARRPT1	EXTWARRPT1 1-year Ext Warranty Repeaters - FR Repeaters Only	$ 180.00	$ 112.95
EXTWARRPT2	EXTWARRPT2 2-year Ext Warranty Repeaters - FR Repeaters Only	$ 325.00	$ 203.94
EXTWARRPT3	EXTWARRPT3 3-year Ext Warranty Repeaters - FR Repeaters Only	$ 465.00	$ 291.79
IAS CONSULT DAILY RATE	IAS CONSULT DAILY RATE Consulting/training services	$ 2,083.33	$ 1,307.29
IAS CONSULT TRAVEL DAYS	IAS CONSULT TRAVEL DAYS To-from customer location	$ 833.33	$ 522.92
IAS ONSITE TECH DAILY RTE	IAS ONSITE TECH DAILY RATE System Optimization-Inst Labor	$ 2,083.33	$ 1,307.29
IAS ONSITE TECH TRVL DAYS	IAS ONSITE TECH TRAVEL DAYS To-from customer location	$ 833.33	$ 522.92
INSTALLLM1234	INSTALLLM1234 F3001/F3011/F121 F3021/F50/F5021/F9511/F5061	$ 40.00	$ 25.10
INSTALLLM6789	INSTALLLM6789 F9011/F70/F3161	$ 70.00	$ 43.93
INSTALLLM9876	INSTALLLM9876 INSTALLATION OF ANTENNA SWITCHES	$ 125.00	$ 78.44
PROGLM1234	PROGLM1234 F3001/F3011/F3021 F121/F50/F5021	$ 42.00	$ 26.36
PROGLM6789	PROGLM6789 F9011/F9511/F70/ F1721/F5061/F3161	$ 70.00	$ 43.93
PROGLM9876	PROGLM9876 Programming/Tuning 100WD X-Band Air	$ 125.00	$ 78.44

Model	Description	Retail	State Price
PROGRAMMING IAS	Icom to program your repeater	$ 50.00	$ 31.38
TECHNICIAN TRAINING	Onsite product training for up to 10 attendees within the CONUS, AK or HI. Curriculum expectations required before booking session(s). Price is "per trainer".	$ 4,842.67	

Icom products that may be discontinued before award, will be removed from the Icom America Retail Price List. A replacement, if available, will be noted.
Should you have any questions or require further clarification, please feel free to contact our Sales Contract Administratoin desk at salescontracts@icomamerica.com.
Thank you for your understanding.

U.S. Avionics Retail

Product & Price Catalog

September 2014

All stated specifications are subject to change without notice or obligation.
All Icom radios meet or exceed FCC regulations limiting spurious emissions.
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E-Mail: parts@icomamerica.com

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Phone: 800.253.1498

Download Icom's current product line brochures instruction manuals, band plans and other information from:
www.icomamerica.com/downloads

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Warranty

Icom's Standard Warranty

Icom America Inc warrants its Icom manufactured products from all factory defects in material or workmanship under normal use and service. All warranties start from the time the end user purchases all products. All accessories come with a 1-year warranty. See the individual product page for specific warranty coverage.

Icom Service Centers

Washington
Icom America Inc.
2380 116th Ave NE
Bellevue, WA 98004

Phone: 800.872.4266
Fax: 425.454.1509
Email: service@icomamerica.com

Services: Land Mobile, Marine, Aviation & Amateur radios

California
Joe's Electronics & Repairs Inc.
Contact Person: Joe
14430 Valley Blvd.
City of Industry, CA. 91746

Phone: 626.330.5338
Fax: 626.810.9656
Email: joek91755@yahoo.com

Services: Land Mobile

Illinois
AJR INT'L, Inc.
Contact Person: Sandra
300 Regency Drive
Glendale Heights, IL 60139

Phone: 888.616.9600
Fax: 630.832.0333
Email: icomservice@ajrintl.com

Services: Land Mobile, Marine VHF
NOT: M802, M700PRO, M710, M700, M600

New York
United Radio
Contact Person: Ron Cook
5703 Enterprise Parkway
East Syracuse, NY 13057

Phone: 315.445.3239
Phone: 800.599.2101
Fax: 315.445.3299
Email: rcook@unitedradio.com

Services: Land Mobile, Marine VHF
NOT: M802, M700PRO, M710, M700, M600

Handhelds

A14 / A14S

VHF Air Band Transceiver

SPECS

Frequencies:		
A14	Tx (COM)	118.000-136.975MHz
	Rx (COM,NAV)	108.000-136.975MHz
	(Weather)	161.650-163.275MHz
A14S	Tx/Rx (COM)	118.000-136.975MHz
Output Power:		5.0/1.5W typ. (PEP/CW)
Channels:		200 (A14), 100 (A14S)
Channel Spacing:		25kHz
Display:		8 character alphanumeric
Mode:		AM (6K00A3E)
Weather (A14 only)		FM (16K0G3E)
Mil Spec:		MIL 810 C,D,E,F
Waterproof Rating:		IPX4 splash proof
Weight:		12.3 oz (with BP232H)

FEATURES

Made with the student pilot in mind
700mW* loud audio
Compact, light weight and rugged body
Large capacity Lithium-Ion battery pack
Side tone function allows you to hear your own voice via a third party aviation headset
LCD backlight for night time operation
ANL (Auto Noise Limiter) for noise reduction
Low battery indication and beep alert
Adjustable microphone gain setting
BNC type antenna connector
Slide tone
Tag scanning
NOAA marine weather channels

COMES WITH

Battery (BP232H)
Charger (BC179)
AC adapter (BC147SA)
Belt clip (MB94)
Antenna (FAB02AR)
Handstrap
Owner's manual
Warranty: 3-Year

Meets MIL-STD 810

A14 / A14S

VHF Air Band Transceiver

Configurations

Model	Description	MSRP
A14 21	200 channel radio with full DTMF keypad	$399.00
A14S 01	100 channel radio without a DTMF keypad	$397.00

Accessories

Model	Description	MSRP
Antennas		
ANT SB	Avionic switchbox	$79.00
FAB02AR	Standard antenna for Aviation handheld radios	$37.00
Batteries		
BP232H	Li-ion 7.4V 2300mAh (typical capacity), 2250mAh (minimum value)	$75.00
BP261	Battery Case A14 A14S AA X 6	$73.00
Belt Clips		
MB93	Swivel belt clip	$11.00
MB94	Alligator belt clip	$10.50
MB94R	Alligator belt clip with long clip that angles the antenna/top of radio off the body	$18.00
MB96F	Leather belt hanger. Use with the MB103/Y, MB94 or MB98.	$35.00
MB96N	Swivel belt hanger. Use with the MB103/Y, MB94 or MB98.	$37.00
Cables		
OPC515L	DC power cable for single unit rapid chargers	$26.00
OPC656	DC power cable for BC121N or BC197 gang chargers	$12.00
Carrying Cases		
LCF3021S CLIP	Leather carrying case with a clip and cutout for the display	$45.00
LCF3021S LOOP	Leather carrying case with a loop and cutout for the display	$38.00
LCF3021S SWIVEL	Leather carrying case with a metal swivel clip and cutout for the display	$50.00
LCF3021T CLIP	Leather carrying case with a clip and cutout for display and keypad	$45.00
LCF3021T SWIVEL	Leather carrying case with a metal swivel clip and cutout for display and keypad	$50.00
NCF3021S CLIP	Nylon carrying case with a clip and cutout for the display	$27.00
NCF3021S LOOP	Nylon carrying case with a loop and cutout for the display	$25.00
NCF3021T CLIP	Nylon carrying case with a clip and cutout for the display and keypad	$27.00
Chargers		
AD106	Adapter cup to install in the BC119N or BC121N for the radios with the BP232N/H battery	$28.00
AD122	Adapter cup that fits into the BC197 22/23 for the BP232N/H batteries	$23.00
BC119N 01	110V rapid charger - requires radio specific adapter cup(not CEC compatible for Amateur/Marine radios)	$75.00
BC119N 02	220V rapid charger - requires radio specific adapter cup	$76.00
BC121N	6 unit multi-charger; requires radio specific adapter cups & BC157 AC adapter	$305.00
BC121N AD106 220V KIT	6 unit 220V gang charger kit BC121N + BC157S 09 + AD106 x 6	$593.00
BC121N AD106 KIT	6 unit 117V gang charger kit BC121N + BC157S 07 + AD106 x 6	$593.00
BC145SA 31	110V AC adapter for rapid chargers	$25.00
BC145SE 32	220V AC adapter for rapid chargers	$25.00
BC147SA 14	110-240V AC adapter for trickle chargers with a US plug	$15.00

A14 / A14S

VHF Air Band Transceiver

Accessories

Model	Description	MSRP
BC147SE 15	230V AC adapter for trickle chargers with a European plug	$16.00
BC157S	110V power supply for 6 bank gang chargers	$120.00
BC157S 220V	220V power supply for the 6 bank gang chargers	$126.00
BC160	Rapid charger with a US plug for radios with the BP230/231/232 batteries	$67.00
BC160E	Rapid charger with European plug for radios with the BP230/231/232 batteries	$67.00
BC171 01	110V drop-in trickle charger for radios with the BP230/231/232 batteries	$47.00
BC171 02	220V drop-in trickle charger for radios with the BP230/231/232 batteries	$45.00
BC179 01	A14/A14S charging adapter w/ BC147SA	$46.00
BC179 02	A14/A14S charging adapter w/ BC147SE	$46.00
BC197 22	110V six unit charger for radios with the BP232N/H Li-Ion battery (includes AC adapter and cups installed)	$510.00
BC197 23	220V 6 unit charger for radios with the BP232N/H Li-Ion battery (includes AC adapter and cups installed)	$510.00
CP22	Cigarette lighter cable wtih DC-DC converter for use with the BC179 for the A14/S. 12-24V DC input available.	$69.00
MB130	Vehicle charger bracket designed to hold a rapid charger allowing battery to charge while in a vehicle. Requires charger & CP17L. Will not work with the BC119N.	$83.00
Headsets		
PA OPC499	Headset adapter	$60.00
PTT SW	Avionic PTT switch. Plugs into your headset.	$28.00
Manuals		
94415339	A14/A14S service manual - CD	$40.00
97715337	A14/A14S service manual hardcopy	$40.00
98815338	A14/S owner's manual	$12.00
Microphones		
HM173	Aviation speaker mic (2-pin right angle connector)	$106.00
Programming Software & Cables		
CSA14	Programming software for the A14/A14S	$77.00
OPC474	Radio to radio cloning cable (3.5mm to 3.5mm)	$20.00
OPC478	PC to handheld programming cable with RS-232S connector for radios with 2-pin connectors	$60.00
OPC478UC	PC to handheld programming cable with USB connector for radios with 2-pin connectors	$70.00

A24 / A6

VHF Air Band Transceiver

SPECS

Frequencies:	
Tx (COM)	118.000-136.975MHz
Rx (COM,NAV)	108.000-136.975MHz
(Weather)	161.650-163.275MHz
Output Power:	5.0/1.5W typ. (PEP/CW)
Channels:	200 (20 Channels X 10 banks)
Channel Spacing:	25kHz
Mode:	AM (6K00A3E)
WX	FM (16K0G3E)
Mil Spec:	MIL 810 F Also meets equivalent MIL-STD-810-C, -D and -E
Weight (approx):	15.2 oz (with BP210N)

FEATURES

Made with the student pilot in mind
700mW* loud audio
Compact, light weight and rugged body
Large capacity Lithium-Ion battery pack
Side tone function allows you to hear your own voice via a third party aviation headset
LCD backlight for night time operation
ANL (Auto Noise Limiter) for noise reduction
Low battery indication and beep alert
Adjustable microphone gain setting
BNC type antenna connector

Supplied Accessories

Battery pack (BP2210N)
Belt clip (MB103)
Wall charger (BC167S)
Antenna (FAB02AR)
Carrying case LC159 (Not included in A6)
Headset adapter (OPC499)
Handstrap
Owner’s manual
Warranty: 3-Year

Meets MIL-STD 810

A24 / A6

VHF Air Band Transceiver

Configurations

Model	Description	MSRP
A24 01	Air band 5W handheld transceiver with VOR navigation	$555.00
A6 30	5 watt airband transceiver with large display COMM ONLY	$475.00

Accessories

Model	Description	MSRP
Antennas		
ANT SB	Avionic switchbox	$79.00
FAB02AR	Standard antenna for Aviation handheld radios	$37.00
Batteries		
BP208N	Battery case that holds 6 AA alkaline batteries.	$22.00
BP210N	NiMH 7.2V 1650mAh battery	$75.00
Belt Clips		
MB103	Alligator belt clip	$12.50
MB86	Swivel belt clip that screws into back of radio	$11.00
MB96F	Leather belt hanger. Use with the MB103/Y, MB94 or MB98.	$35.00
MB96N	Swivel belt hanger. Use with the MB103/Y, MB94 or MB98.	$37.00
Cables		
OPC515L	DC power cable for single unit rapid chargers	$26.00
OPC656	DC power cable for BC121N or BC197 gang chargers	$12.00
Carrying Cases		
LC159	Leather carrying case for the A6/A24	$43.00
Chargers		
AD101	Adapter cup to install in the BC119N or BC121N for the BP210N & BP211 batteries	$28.00
AD94 11	Adapter cup installs in the BC119N or BC121N for the BP209N & BP210N batteries	$28.00
BC121N	6 unit multi-charger; requires radio specific adapter cups & BC157 AC adapter	$305.00
BC121N A24	6-Unit Charger Kit BC121N + BC157 + AD101 x 6	$593.00
BC144N 51	117V rapid charger F11/21/3G/4G/30G/40G series	$66.00
BC144N 52	220V rapid charger F11/21/3G/4G/30G/40G series	$75.00
BC145SA 31	110V AC adapter for rapid chargers	$25.00
BC145SE 32	220V AC adapter for rapid chargers	$25.00
BC157S	110V power supply for 6 bank gang chargers	$120.00
BC157S 220V	220V power supply for the 6 bank gang chargers	$126.00
BC167SA	Wall charger 117V	$35.00
BC167SD	Wall charger 220V	$40.00
CP20	Cigarette lighter cable with noise filter and DC-DC converter. Charges with a 12V/24V cigarette lighter socket.	$61.00
Headsets		
PA OPC499	Headset adapter	$60.00
PTT SW	Avionic PTT switch. Plugs into your headset.	$28.00

A24 / A6

VHF Air Band Transceiver

Accessories

Model	Description	MSRP
Manuals		
94414904	A24/A6 CD service manual	$40.00
97714915	A6/A24 service manual hardcopy	$40.00
98814945	A24/A6 owner's manual	$12.00
Microphones		
HM173	Aviation speaker mic (2-pin right angle connector)	$106.00
Programming Software & Cables		
CSA24	A24 Cloning Software	$65.00
OPC474	Radio to radio cloning cable (3.5mm to 3.5mm)	$20.00
OPC478	PC to handheld programming cable with RS-232S connector for radios with 2-pin connectors	$60.00
OPC478UC	PC to handheld programming cable with USB connector for radios with 2-pin connectors	$70.00

Mobiles

MR
20IC-A110
VOL
V/M
SCAN
PRI
SQL

DUAL
EC
ICOM
RCL
COMM
VOL
MEM
118.00 136.975
OFF
PUSH TEST
IC-A210

A110

VHF Air Band Transceiver

SPECS

Frequencies:	118.000-136.975MHz
Output Power:	36W typ. Pep (9 W typ for CW)
Channels:	20
Channel Spacing:	8.33/25kHz
Mode:	AM (6K00A3E)
LCD Display:	8 character alpha-numeric
Mil Spec:	810 C, D, E
Scan:	Normal, VFO and priority
Weight (approx):	3 lb 5 oz

FEATURES

Capable of being installed in any vehicle
Front mounted loud speaker
Dial selection
Memory channel name capability
Side tone function
Convenient on hook scan functions
Usable in extreme cold
Equipped EEPROM system provides maintenance free memory backup capability, without the use of a separate backup battery
Ideal compact size of 150(W) × 50(H) × 180(D) mm* to mount in various types of vehicles
Excellent durability to cope with even the toughest workplace
Memory channel only operation possible via PC programming

COMES WITH

Hand microphone (HM161)
DC power cable
Mounting bracket kit
Microphone hanger kit
Fuses
Owner’s manual
Warranty: 2-Year

Meets MIL-STD 810

A110

VHF Air Band Transceiver

Configurations

Model	Description	MSRP
A110 24	Airband mobile with 20 channels	$1,559.00
A110 24B	20 channel mobile with power supply and cabinet for base station	$1,799.00
A110 25	Airband mobile with 760 channels	$1,559.00
A110 25B	760 channels mobile with power supply and cabinet for base station	$1,799.00

Accessories

Model	Description	MSRP
Antennas		
ANT SB	Avionic switchbox	$79.00
B ANT	Base station antenna 118.8 to 126.8MHz with 50' 4" cable for Avionic mobile units.	$365.00
K220A	Aviation mobile antenna with a magnetic mount	$75.00
K220C	Aviation mobile antenna with a rooftop hole mount	$60.00
Cables		
OPC344	A110 Std Power Cord	$16.00
External Speakers		
SP22	5W small mobile rectangular external speaker (4Ohm)	$58.00
SP35	5W external speaker with 3.5mm speaker jack and 2m cable	$60.00
Headsets		
OPC871	A110 Headset Adapter	$154.00
PTT SW	Avionic PTT switch. Plugs into your headset.	$28.00
Manuals		
94413329	A110 CD service manual	$40.00
97713330	A110 service manual hardcopy	$40.00
98813332	A110 owner's manual	$12.00
Microphones		
HM152	Standard microphone for low/mid range mobile radios	$44.00
HM161	A110 hand microphone	$44.00
SM26	Desktop microphone with monitor switch for mobile radios	$90.00
Power Supplies		
ICT CS120-12AG/IC010	110V power supply and cabinet for base station use for A110	$185.00
ICT IC010 220V	220V power supply and cabinet for control station use for A110	$210.00
Programming Software & Cables		
CSA110	A110 cloning software for versions 24/25 only	$53.00
OPC478	PC to handheld programming cable with RS-232S connector for radios with 2-pin connectors	$60.00
OPC478UC	PC to handheld programming cable with USB connector for radios with 2-pin connectors	$70.00
OPC592	Programming cloning cable for PC to radio (must use with OPC-478/UC)	$17.00

A210

VHF Air Band Transceiver

SPECS

Frequencies:	Tx/Rx 118.000-136.975MHz 1Rx Wx61.650-163.275MHz* *USA version only
Frequency spacing:	25kHz
Output Power:	8W typical (carrier power)
Channels:	10 regular memory 200 group memory 10 GPS, 10 weather* 10 auto stack memory *USA version only
Display:	organic light emitting diode (OLED) display
Mil Spec:	810 F, also meets equivalent MIL-STD-810-C, -D and -E
Scan:	VFO
Weight (approx):	2.2 lb

FEATURES

Large, bright OLED display
Easy channel selection
GPS memory function
12V/24V DC power source
Intercom functions
Easy installation
One touch access to 121.5MHz emergency frequency
Side tone function for monitoring your voice with headset
ANL (Automatic noise limiter) function reduces pulse type noise
Remote control capability
Time-out-timer
PC programming capability
Dial lock and panel lock
Squelch test function

COMES WITH

Mounting bracket kit
Rear panel adapter (MB113)*
Owner's manual
Warranty: 2-Year
*Depending on version

Meets MIL-STD 810

A210

VHF Air Band Transceiver

Configurations

Model	Description	MSRP
A210 25	Radio only	$2,165.00
A210 25B	Radio with PS80 04 power supply for base station option	$3,265.00
A210 25M	Radio with MB-53 for mobile mount	$2,615.00

Accessories

Model	Description	MSRP
Antennas		
B ANT	Base station antenna 118.8 to 126.8MHz with 50' 4" cable for Avionic mobile units.	$365.00
K220A	Aviation mobile antenna with a magnetic mount	$75.00
K220C	Aviation mobile antenna with a rooftop hole mount	$60.00
External Speakers		
SP22	5W small mobile rectangular external speaker (4Ohm)	$58.00
SP35	5W external speaker with 3.5mm speaker jack and 2m cable	$60.00
Manuals		
97715315	A210 service manual hardcopy	$40.00
98815316	A210 owner's manual	$12.00
Microphones		
HM176	Microphone for the A210 A200 PS80	$185.00
Mounting Hardware		
A200 TRAY	Mounting tray for A200 & A210	$65.00
MB53 02	Mobile mounting bracket that includes HM176 microphone, SP35 external speaker and harness for A200 & A210	$500.00
Power Supplies		
PS80 04	A200 power supply w/HM176	$1,040.00
Programming Software & Cables		
CSA210	A210 cloning software	$66.00
OPC1529R	Data cable (RS232 to 3.5mm)	$41.00

U.S. Land Mobile Retail

Product Catalog

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www.icomamerica.com/downloads

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F8101 94

.

Warranty

Icom's Standard Warranty

Icom America Inc warrants its Icom manufactured products from all factory defects in material or workmanship under normal use and service. All warranties start from the time the end user purchases all products. All accessories come with a 1-year warranty. See the individual product page for specific warranty coverage.

Warranty Equipment Chart

ONE YEAR WARRANTY	TWO YEAR WARRANTY	THREE YEAR WARRANTY
CY Repeater*	4088A FRS	F3230D-F4230D Series
X-Band Repeater*	F3011-F4011 Series	F3161-F4161/D Series
Voting Receiver*	F3001-F4001 Series	F3261D-F4261D Series
CY5000-CY6000 Repeater*	F14-F24 Series	F70D-F80D Series
IAS 100D Repeater*	F3101D-F4101D Series	F9011-F9021 Series
IAS 100W Repeater*	F3210D-F4210D Series	F5061-F6061/D Series
	F3021-F4021 Series	F1721D-F1821D Series
	F3031-F4031 Series	F9511-F9521 Series
	F50-F60 Series	
	F70-F80 Series	
	F5011-F6011 Series	
	F5021-F6021 Series	
	F5121D-F6121D Series	
	F5220D-F6220D Series	
	F1721-F1821 Series	
	FR3000-FR4000	
	FR5000-FR6000	
	URFR5000-URFR6000	

**The F121/F221, FR/UR repeater in the IAS product will receive a two year warranty and everything else will receive a one year warranty.*

ONE YEAR WARRANTY - ACCESSORIES		
Speaker Microphones	Belt Clips	
Headsets & Ear Pieces	Power Supplies	
Mobile Microphones	External Speakers	
Batteries	Duplexers	
Chargers Internal	Modules	
Antennas	Separation Kits	

Icom Service Centers

Washington
Icom America Inc.
12421 Willows RD NE
Kirkland, WA 98034

Phone: 800.872.4266
Fax: 425.454.1509
Email: service@icomamerica.com

Services: Land Mobile, Marine, Aviation & Amateur radios

California
Joe's Electronics & Repairs Inc.
Contact Person: Joe
14430 Valley Blvd.
City of Industry, CA. 91746

Phone: 626.330.5338
Fax: 626.810.9656
Email: joek91755@yahoo.com

Services: Land Mobile

Illinois
AJR INT'L, Inc.
Contact Person: Sandra
300 Regency Drive
Glendale Heights, IL 60139

Phone: 888.616.9600
Fax: 630.832.0333
Email: icomservice@ajrintl.com

Services: Land Mobile, Marine VHF
NOT: M802, M700PRO, M710, M700, M600

New York
United Radio
Contact Person: Ron Cook
5703 Enterprise Parkway
East Syracuse, NY 13057

Phone: 315.445.3239
Phone: 800.599.2101
Fax: 315.445.3299
Email: rcook@unitedradio.com

Services: Land Mobile, Marine VHF
NOT: M802, M700PRO, M710, M700, M600

Programming Options & Policies

Portable Antennas Options

Icom's handheld radios come standard with the below antennas:

- VHF 150-174 MHz antenna
- UHF 440-470 MHz (red tip)

Icom also makes VHF 136-155 MHz antennas and high and low spilt UHF antennas. When you order handhelds from Icom, please confirm what frequency you need. If you need a different frequency range, we will swap out the standard antenna and replace with the one you want. The B2B offers this option once you select the radio you want to purchase.

Substitution Policy

Stubby antenna and battery substitutions permitted on request, price differences may apply. When ordering please use the upgrade and substitution codes needed (ex: BP-240 sub). See the appropriate accessory pages for these new codes. Chargers and batteries can- not be substituted on the F3001, F3011, & F3101D series radios.

Programming & Installation Options - Portables & Mobiles

We provide customized programming and optional module installation on new radio orders. Please add the appropriate part number to your PO.

Programming & Installation Fees - IAS Equipment

Many Icom America System products offer internal modules that require installation and programming. We provide customized programming and optional module installation on new IAS orders. Please add a line item to your PO.

Portables

F3011 – F4011 Series

Entry Level Portables

SPECS

Frequencies:	136-174, 400-470, 450-512MHz
Output Power:	5W (VHF); 4W (UHF)
Channels:	16
Channel Spacing:	12.5kHz
Mil Spec:	810 C, D, E
Scan:	Normal & priority
Weight:	10.6oz (with BP-232H)
Waterproof Rating:	IP54 dust and splash proof

FEATURES

Low battery alert with blinking LED & beep
3 Buttons
Talk around function
3-color LED (red, green & orange)
Time out timer
2-step power save

SIGNALING

CTCSS / DTCS encode & decode

COMES WITH

Antenna (FA-SC55V or FA-SC57U)
Battery (BP-232H)
Belt Clip (MB-94)
Rapid Charger (BC-160)
Owner's manual
Warranty: 2 years

IP54 DUST PROTECTION & SPLASH PROOF

Meets MIL-STD 810

OTTO ACCESSORIES AVAILABLE

MDC 1200 Compatible

F3011 – F4011 Series

Entry Level Portables

Configurations

Model	Description	MSRP
F3011 41 RC	136-174MHz radio with rapid charger in the box (BC-160)	$240.00
F4011 41 RC	400-470MHz radio with rapid charger in the box (BC-160)	$240.00
F4011 42 RC	450-512MHz radio with rapid charger in the box (BC-160)	$240.00

Accessories

Model	Description	MSRP
EXTWARR211	1 year extended warranty for a total 3 years	$25.00
EXTWARR212	2 year extended warranty for a total 4 years	$44.00
EXTWARR213	3 year extended warranty for a total 5 years	$62.00
Antennas		
CEN EXD 400 MXI	400-430MHz stubby antenna for land mobile portable radios	$14.50
FASC25U	400-430MHz antenna for LM portables	$13.00
FASC25V	136-150MHz antenna for LM portables	$13.00
FASC55V	146-174MHz standard antenna for LM portables	$13.00
FASC56VS	150-160MHz stubby antenna for LM portables	$14.50
FASC57U	440-470MHz standard antenna for LM radios (red ring)	$13.00
FASC57VS	160-174MHz stubby antenna for LM portables	$14.50
FASC61UC	380-520MHz cut antenna for the specific frequency desired	$16.00
FASC61VC	136-174MHz cut antenna for the specific frequency desired	$16.00
FASC62V	150-160MHz high gain antenna for LM portables (10")	$55.00
FASC63V	155-165MHz high gain antenna for LM portables (9.5")	$55.00
FASC72U	470-512MHz antenna for LM portables	$13.00
FASC73US	450-470MHz stubby antenna for LM portable radios	$14.50
LAIRD EXH 160 MXI	155-160MHz antenna	$26.00
LARSEN SPHL10160IC	155-160MHz antenna	$26.00
Batteries		
BP232H	Li-ion 7.4V 2300mAh (typical capacity), 2250mAh (minimum value)	$75.00
BP240	Battery case that holds 6 AAA alkaline batteries (1W output power)	$35.00
Belt Clips		
AW STUD	Metal stud that slides on where the belt clip goes. Requires AW Swivel	$12.00
AW STUD/SWIVEL KIT	Metal stud that slides on like a belt clip and it's attached to a strong metal swivel belt clip	$21.00
AW SWIVEL	Swivel clip used with the AW Stud/Swivel Kit.	$13.00
MB93	Swivel belt clip	$11.00
MB94	Alligator belt clip	$10.50
MB94R	Alligator belt clip with long clip that angles the antenna/top of radio off the body	$18.00
MB96F	Leather belt hanger. Use with the MB103/Y, MB94 or MB98.	$35.00
MB96N	Swivel belt hanger. Use with the MB103/Y, MB94 or MB98.	$37.00
Cables		
OPC515L	DC power cable for single unit rapid chargers	$26.00
OPC656	DC power cable for BC121N or BC197 gang chargers	$12.00

F3011 – F4011 Series

Entry Level Portables

Accessories

Model	Description	MSRP
Carrying Cases		
LCF14 LOOP	Leather carrying case with a loop F14/24 & F3011/4011 radios	$38.00
LCF14 SWIVEL	Leather carrying case with a swivel F14/24 & F3011/4011 radios	$50.00
NCF14 CLIP	Nylon carrying case with a clip F14/24 & F3011/4011 radios	$27.00
NCF14 LOOP	Nylon carrying case with a loop F14/24 & F3011/4011 radios	$25.00
Chargers		
AD106	Adapter cup to install in the BC119N or BC121N for the radios with the BP232N/H battery	$28.00
AD122	Adapter cup that fits into the BC197 22/23 for the BP232N/H batteries	$23.00
BC121N	6 unit multi-charger; requires radio specific adapter cups & BC157 AC adapter	$305.00
BC121N AD106 220V KIT	6 unit 220V gang charger kit BC121N + BC157S 09 + AD106 x 6	$593.00
BC121N AD106 KIT	6 unit 117V gang charger kit BC121N + BC157S 07 + AD106 x 6	$593.00
BC145SA 31	110V AC adapter for rapid chargers	$25.00
BC145SE 32	220V AC adapter for rapid chargers	$25.00
BC157S	110V power supply for 6 bank gang chargers	$120.00
BC157S 220V	220V power supply for the 6 bank gang chargers	$126.00
BC160	Rapid charger with a US plug for radios with the BP230/231/232 batteries	$67.00
BC160E	Rapid charger with European plug for radios with the BP230/231/232 batteries	$67.00
BC197 22	110V six unit charger for radios with the BP232N/H Li-Ion battery (includes AC adapter and cups installed)	$510.00
BC197 23	220V 6 unit charger for radios with the BP232N/H Li-Ion battery (includes AC adapter and cups installed)	$510.00
CP17L	12V cigarette lighter cable for use with BC-119N/BC-160	$30.00
CP23L	12V cigarette lighter cable for use with BC-119N/160/191/193/213	$35.00
IA-TC100B	Travel charger piece the BC-160/BC-171 fits into. Req CP1/CP17L or OPC515L	$45.00
MB130	Vehicle charger bracket designed to hold a rapid charger allowing battery to charge while in a vehicle. Requires charger & CP17L. Will not work with the BC119N.	$83.00
Headsets		
HS94	Earpiece headset; use with VS1/OPC2004/OPC2006/OPC1392	$25.00
HS95	Headset with boom mic; use with VS1/OPC2004/OPC2006/OPC1392	$215.00
HS97	Earphone with throat mic headset; use with VS1/OPC2004/OPC2006/OPC1392	$42.00
OTTO V110519	Barrel PTT - connects to headsets with pigtail	$120.00
OTTO V410395	Behind-the-head style, noise attenuating headset (2-pin right angle connector)	$360.00
OTTO V410480	Over the head style w/ NC Boom Mic, in-line ptt (2-pin screw down connector)	$350.00
OTTO V4BA2CS1	Breeze behind-the-head headset, single speaker with left boom mic with 2-pin right angle screw down connector	$107.00
OTTO V4EX2CC5	Explorer lightweight headset with flexible earloop w/boom mic (2-pin right angle connector)	$90.00
OTTO V4EX2CS5	Explorer lightweight headset with flexible earloop w/boom mic (2-pin right angle screw down connector)	$145.00
VS1L	VOX/PTT case with 2-pin right angle connector. Must use with HS94/HS95/HS97	$44.00
Manuals		
94415491	F4011 CD service manual	$40.00
94415494	F3011 CD service manual	$40.00
97715490	F4011 service manual - hardcopy	$40.00
97715493	F3011 service manual - hardcopy	$40.00

F3011 – F4011 Series

Entry Level Portables

Accessories

Model	Description	MSRP
98815492	F3011/4011 owner's manual	$12.00
Microphones		
HM158LA	Compact speaker microphone with revolving clip and earphone jack (right angle 2-pin screw down connector, stereo mic/mono speaker)	$47.00
HM159LA	Large speaker microphone with earphone jack and metal alligator clip (right angle 2-pin screw down connector, stereo mic/mono speaker)	$77.00
HM-HD7I7WP	Large waterproof speaker microphone with 3.5mm accessory jack (right angle 2-pin screw down connector)	$110.00
IMPACT HD3-I3	Heavy duty speaker mic w/3.5mm accessory jack (2-pin screw down connector)	$59.00
OTTO V110282	Speaker mic earpiece(2.5mm straight plug)	$50.00
OTTO V110432	Speaker mic earpiece (2.5mm right angle plug)	$60.00
OTTO V110433	Speaker mic earpiece (3.5mm right angle plug)	$60.00
OTTO V210200	Evolution heavy duty mic with hi/lo volume switch, 2.5mm earphone jack and 2-pin right angle connector	$93.00
OTTO V210288	Evolution heavy duty mic with hi/lo volume switch, 2.5mm earphone jack and 2-pin right angle screw down connector	$113.00
OTTO V2C2CS11	Legacy speaker microphone (2-pin screw down connector)	$48.00
OTTO V2L2CC11	Profile speaker mic with 2-pin right angle connector	$88.00
OTTO V2L2CS11	Profile speaker mic with 2.5mm earphone jack and 2-pin right angle screw down connector	$93.00
SP13	Earphone for speaker mics/handhelds	$5.00
Programming Software & Cables		
CSF3011	F3011/4011 software	$75.00
OPC478	PC to handheld programming cable with RS-232S connector for radios with 2-pin connectors	$60.00
OPC478UC	PC to handheld programming cable with USB connector for radios with 2-pin connectors	$70.00
PROGLM1234	Icom to program your radio or IAS product	$42.00
RedHawk		
IAS BC-RHADPTR	100-240V charger adapter for use with the IAS OPC-RHUSB	$70.00
IAS BC-RHCHG1	100-240V single unit charger for RedHawk mic	$105.00
IAS BC-RHCHG12	100-240V 12 unit charger for the RedHawk mics	$1,000.00
IAS BP-RHBATT1	3.8V 1200mAh battery for RedHawk mic	$45.00
IAS CP-RHLP	12-24V cigarette lighter plug requiring 2 USB cables	$60.00
IAS CS-RHSW	Utility software to upload stored tracks, optional PC programming, online demos. One per customer needed.	$120.00
IAS OPC-RHI2	RedHawk 2-pin cable connects GPS mic to radio	$93.00
IAS OPC-RHUSB	USB cable to connect mic with PC or charger adapter. One comes with each microphone.	$30.00
IAS REDHAWK	Speaker microhpone with GPS receiver. LCD display shows basic orientation of all members within a group. Battery & USB cable included. Cable that hooks from microphone to radio is required.	$584.00
Wire Kits		
HM128L	Earphone/mic with 2-pin right angle connector	$28.50
HM153LA	Covert durable microphone with earphone combination (right angle 2-pin screw down connector)	$125.00
HM166LA	Earphone microphone with 2-pin right angle connector	$53.00
OTTO E1EB2CC131	1-wire kit with earbud and in-line mic with 2-pin right angle connector	$10.00
OTTO E1ET2CS131	2-wire D-hanger with in line mic/ptt with 2-pin right angle connector	$32.00
OTTO V110756	2-Wire palm mic kit with 2-pin right angle screw down connector	$98.00

F3011 – F4011 Series

Entry Level Portables

Accessories

Model	Description	MSRP
OTTO V1T12CS117	Throat mic system w/acoustic tube ear piece and 80mm body PTT with right angle 2-pin right angle connector	$595.00

F3001 – F4001 Series

Entry Level Portables

SPECS

Frequencies:	136-174, 400-470, 450-512MHz
Output Power:	5W (VHF); 4W (UHF)
Channels:	16
Channel Spacing:	12.5kHz
Mil Spec:	810 C, D, E
Scan:	Normal & priority
Weight:	11.6oz (with BP-264)
Waterproof Rating:	IP54 dust and splash proof
Versions:	Ni-M battery and drop-in trickle charger in the box Li-ion battery and rapid charger in the box

FEATURES

Low battery alert with blinking LED & beep
3 Buttons
Talk around function
3-color LED (red, green & orange)
Time out timer
2-step power save
Lone worker function

COMES WITH

Charger (BC-192 or BC-193)
Antenna (FA-SC55V or FA-SC57U)
Battery (BP-264 or BP-265)
Belt Clip (MB-124)
Owner's manual
Warranty: 2 years

SIGNALING

CTCSS / DTCS Encode/Decode
2-Tone, 5-Tone
MDC1200

- PTT ID
- Emergency Status

IP54 DUST PROTECTION & SPLASH PROOF

Meets MIL-STD 810

OTTO ACCESSORIES AVAILABLE

MDC 1200 Compatible

F3001 – F4001 Series

Entry Level Portables

Configurations

Model	Description	MSRP
F3001 02 DTC	136-174MHz radio with 1400mAh NiMH battery & trickle charger (BC-192)	$185.00
F3001 03 RC	136-174MHz radio with 1900mAh Li-ion battery & rapid charger (BC-193)	$230.00
F4001 02 DTC	400-470MHz radio with 1400mAh NiMH battery & trickle charger (BC-192)	$185.00
F4001 03 RC	400-470MHz radio with 1900mAh Li-ion battery & rapid charger (BC-193)	$230.00
F4001 42 DTC	450-512MHz radio with 1400mAh NiMH battery & trickle charger (BC-192)	$185.00
F4001 43 RC	450-512MHz radio with 1900mAh Li-ion battery & rapid charger (BC-193)	$230.00

Accessories

Model	Description	MSRP
EXTWARR211	1 year extended warranty for a total 3 years	$25.00
EXTWARR212	2 year extended warranty for a total 4 years	$44.00
EXTWARR213	3 year extended warranty for a total 5 years	$62.00
Antennas		
CEN EXD 400 MXI	400-430MHz stubby antenna for land mobile portable radios	$14.50
FASC25U	400-430MHz antenna for LM portables	$13.00
FASC25V	136-150MHz antenna for LM portables	$13.00
FASC55V	146-174MHz standard antenna for LM portables	$13.00
FASC56VS	150-160MHz stubby antenna for LM portables	$14.50
FASC57U	440-470MHz standard antenna for LM radios (red ring)	$13.00
FASC57VS	160-174MHz stubby antenna for LM portables	$14.50
FASC61UC	380-520MHz cut antenna for the specific frequency desired	$16.00
FASC61VC	136-174MHz cut antenna for the specific frequency desired	$16.00
FASC62V	150-160MHz high gain antenna for LM portables (10")	$55.00
FASC63V	155-165MHz high gain antenna for LM portables (9.5")	$55.00
FASC72U	470-512MHz antenna for LM portables	$13.00
FASC73US	450-470MHz stubby antenna for LM portable radios	$14.50
LAIRD EXH 160 MXI	155-160MHz antenna	$26.00
LARSEN SPHL10160IC	155-160MHz antenna	$26.00
Batteries		
BP263	Battery case that holds 6 AA alkaline batteries	$30.00
BP264	1400mAh NiMH	$43.00
BP265	1900mAh Li-ion	$62.00
Belt Clips		
MB124	Alligator type belt clip	$12.00
Cables		
OPC515L	DC power cable for single unit rapid chargers	$26.00
OPC656	DC power cable for BC121N or BC197 gang chargers	$12.00
Carrying Cases		
LCF3000 SWIVEL	Leather carrying case with a swivel for the F3001/4001 & F3101D/4101D radios	$50.00
NCF3000 CLIP	Nylon carrying case with a clip for the F3001/4001 & F3101D/4101D radios	$27.00

F3001 – F4001 Series

Entry Level Portables

Accessories

Model	Description	MSRP
Chargers		
AD120	Adapter cup that fits into the BC197 02/03 for the BP264 NiMH battery	$23.00
AD121	Adapter cup that fits into the BC197 12/13 for the BP265 Li-ion battery	$23.00
BC123SA 51	AC adapter for BC191/BC193/BC160 rapid chargers with US plug	$25.00
BC123SE	220V AC adapter for BC191/BC193/BC160 rapid chargers	$27.00
BC147SA 14	110-240V AC adapter for trickle chargers with a US plug	$15.00
BC147SE 15	230V AC adapter for trickle chargers with a European plug	$16.00
BC157S	110V power supply for 6 bank gang chargers	$120.00
BC157S 220V	220V power supply for the 6 bank gang chargers	$126.00
BC191 12	110V rapid charger for radios with the NiMH BP264	$67.00
BC191 13	220V Rapid charger for radios with the NiMH BP264	$67.00
BC192 12	110V trickle charger for the NiMH BP264 (not CEC compatible for AM radios)	$36.00
BC193	110V rapid charger for the Li-Ion BP265	$67.00
BC197 02	110V six unit charger for radios with the BP264 NiMH battery (includes AC adapter and cups installed)	$510.00
BC197 03	220V six unit charger for radios with the BP264 NiMH battery (includes AC adapter and cups installed)	$510.00
BC197 12	110V six unit charger for radios with the BP265 Li-Ion battery (includes AC adapter and cups installed)	$510.00
BC197 13	220V six unit charger for radios with the BP265 Li-Ion battery (includes AC adapter and cups installed)	$510.00
CP17L	12V cigarette lighter cable for use with BC-119N/BC-160	$30.00
CP23L	12V cigarette lighter cable for use with BC-119N/160/191/193/213	$35.00
MB130	Vehicle charger bracket designed to hold a rapid charger allowing battery to charge while in a vehicle. Requires charger & CP17L. Will not work with the BC119N.	$83.00
Headsets		
HS94	Earpiece headset; use with VS1/OPC2004/OPC2006/OPC1392	$25.00
HS95	Headset with boom mic; use with VS1/OPC2004/OPC2006/OPC1392	$215.00
HS97	Earphone with throat mic headset; use with VS1/OPC2004/OPC2006/OPC1392	$42.00
OPC2004	Adapter plug to to use the HS94/95/97 for the F3001/4001/3101D/4101D & V80	$30.00
OTTO V110519	Barrel PTT - connects to headsets with pigtail	$120.00
OTTO V410479	Lightweight single speaker headset (2-pin screw down connector)	$121.00
OTTO V410480	Over the head style w/ NC Boom Mic, in-line ptt (2-pin screw down connector)	$350.00
OTTO V4BA2CS1	Breeze behind-the-head headset, single speaker with left boom mic with 2-pin right angle screw down connector	$107.00
OTTO V4EX2CS5	Explorer lightweight headset with flexible earloop w/boom mic (2-pin right angle screw down connector)	$145.00
Manuals		
94415602	F3001/4001 CD service manual	$40.00
97715515	F4001 hard copy service manual	$40.00
97715519	F3001 hard copy service manual	$40.00
98815600	F3001/4001 owner's manual	$12.00
Microphones		
HM158LA	Compact speaker microphone with revolving clip and earphone jack (right angle 2-pin screw down connector, stereo mic/mono speaker)	$47.00

F3001 – F4001 Series

Entry Level Portables

Accessories

Model	Description	MSRP
HM159LA	Large speaker microphone with earphone jack and metal alligator clip (right angle 2-pin screw down connector, stereo mic/mono speaker)	$77.00
HM-HD7I7WP	Large waterproof speaker microphone with 3.5mm accessory jack (right angle 2-pin screw down connector)	$110.00
IMPACT HD3-I3	Heavy duty speaker mic w/3.5mm accessory jack (2-pin screw down connector)	$59.00
OTTO V110282	Speaker mic earpiece(2.5mm straight plug)	$50.00
OTTO V110432	Speaker mic earpiece (2.5mm right angle plug)	$60.00
OTTO V110433	Speaker mic earpiece (3.5mm right angle plug)	$60.00
OTTO V210288	Evolution heavy duty mic with hi/lo volume switch, 2.5mm earphone jack and 2-pin right angle screw down connector	$113.00
OTTO V2C2CS11	Legacy speaker microphone (2-pin screw down connector)	$48.00
OTTO V2L2CS11	Profile speaker mic with 2.5mm earphone jack and 2-pin right angle screw down connector	$93.00
Programming Software & Cables		
CSF3001	F3001/F4001 programming software	$72.00
OPC478	PC to handheld programming cable with RS-232S connector for radios with 2-pin connectors	$60.00
OPC478UC	PC to handheld programming cable with USB connector for radios with 2-pin connectors	$70.00
PROGLM1234	Icom to program your radio or IAS product	$42.00
RedHawk		
IAS BC-RHADPTR	100-240V charger adapter for use with the IAS OPC-RHUSB	$70.00
IAS BC-RHCHG1	100-240V single unit charger for RedHawk mic	$105.00
IAS BC-RHCHG12	100-240V 12 unit charger for the RedHawk mics	$1,000.00
IAS BP-RHBATT1	3.8V 1200mAh battery for RedHawk mic	$45.00
IAS CP-RHLP	12-24V cigarette lighter plug requiring 2 USB cables	$60.00
IAS CS-RHSW	Utility software to upload stored tracks, optional PC programming, online demos. One per customer needed.	$120.00
IAS OPC-RHI2	RedHawk 2-pin cable connects GPS mic to radio	$93.00
IAS OPC-RHUSB	USB cable to connect mic with PC or charger adapter. One comes with each microphone.	$30.00
IAS REDHAWK	Speaker microhpone with GPS receiver. LCD display shows basic orientation of all members within a group. Battery & USB cable included. Cable that hooks from microphone to radio is required.	$584.00
Wire Kits		
HM128L	Earphone/mic with 2-pin right angle connector	$28.50
HM153LA	Covert durable microphone with earphone combination (right angle 2-pin screw down connector)	$125.00
HM166LA	Earphone microphone with 2-pin right angle connector	$53.00
OTTO E1EB2CC131	1-wire kit with earbud and in-line mic with 2-pin right angle connector	$10.00
OTTO E1ET2CS131	2-wire D-hanger with in line mic/ptt with 2-pin right angle connector	$32.00
OTTO V110756	2-Wire palm mic kit with 2-pin right angle screw down connector	$98.00
OTTO V1T12CS117	Throat mic system w/acoustic tube ear piece and 80mm body PTT with right angle 2-pin right angle connector	$595.00

F1000/S/T – F2000/S/T Series

VHF AND UHF TRANSCEIVERS

SPECS

Frequencies:	136-174, 400-470, 450-512MHz
Output Power:	5W (VHF); 4W (UHF)
Channels:	16 or 128 (S/T)
Channel Spacing:	12.5kHz
Mil Spec:	MIL-STD 810 C,D,D,F,G,
Weight:	8.47oz (with BP-279)
Waterproof Rating:	IP67 dust-tight and waterproof protection
Versions:	With full keypad With simple keypad Without LCD and front keypad

FEATURES

General Features

- IP67 waterproof and dust-tight protection
- Enhanced emergency with built-in motion sensor
- Selective calling, quiet sand-by and more
- Easy to hear in noisy areas
- Channel announcement
- Built-in inversion voice scrambler
- 8 DTMF autodial memories
- “Shift key” function increases number of programmable key assignments
- Surveillance function
- Escalating alarm

COMES WITH

Antenna (FA-SC55V or FA-SC57U)
Battery pack (BP-279)
Belt Clip (MB-133)
Warranty: 2 years

SIGNALING

CTCSS / DTCS encode & decode
Built-In 2-Tone, 5-Tone
MDC1200 16 channel version

- PTT ID (transmit only)
- Emergency Call (transmit only)

MDC1200 S/T version

- PTT ID (Tx/Rx)
- Emergency (Tx/Rx)
- Radio check (Rx)
- Stun/revive (Rx)
- Transmit status message
- 100 alias table

F1000/S/T – F2000/S/T Series

VHF AND UHF TRANSCEIVERS

Configurations

Model	Description	MSRP
F1000 01	136-174MHz 16 CH, no display	$210.00
F1000S 05	136-174MHz, 128 CH, LCD, 4-key	$375.00
F1000T 09	136-174MHz, 128CH, LCD, full DTMF keypad. November availability.	$405.00
F2000 01	400-470MHz 16 channel, no display	$210.00
F2000S 05	400-470MHz, 128 CH, LCD, 4-key	$375.00
F2000T 09	400-470MHz, 128 CH, LCD, full DTMF keypad	$405.00
F2000 21	450-512MHz 16 CH, no LCD. January 2015 availability	$210.00
F2000S 23	450-512MHz, 128 CH, LCD, 4-key. January 2015 availability	$375.00
F2000T 25	450-512MHz, 128 CH, LCD, full DTMF keypad. January 2015 availability.	$405.00

Accessories

Model	Description	MSRP
EXTWARR211	1 year extended warranty for a total 3 years	$25.00
EXTWARR212	2 year extended warranty for a total 4 years	$44.00
EXTWARR213	3 year extended warranty for a total 5 years	$62.00
Antennas		
FASC25U	400-430MHz antenna for LM portables	$13.00
FASC25V	136-150MHz antenna for LM portables	$13.00
FASC55V	146-174MHz standard antenna for LM portables	$13.00
FASC56VS	150-160MHz stubby antenna for LM portables	$14.50
FASC57U	440-470MHz standard antenna for LM radios (red ring)	$13.00
FASC57VS	160-174MHz stubby antenna for LM portables	$14.50
FASC61UC	380-520MHz cut antenna for the specific frequency desired	$16.00
FASC61VC	136-174MHz cut antenna for the specific frequency desired	$16.00
FASC62V	150-160MHz high gain antenna for LM portables (10")	$55.00
FASC63V	155-165MHz high gain antenna for LM portables (9.5")	$55.00
FASC73US	450-470MHz stubby antenna for LM portable radios	$14.50
Batteries		
BP279	Li-ion 7.2V 1485mAh battery	$70.00
Belt Clips		
MB133	Alligator type belt clip	$17.00
Cables		
OPC656	DC power cable for BC121N or BC197 gang chargers	$12.00
Chargers		
BC123SA 51	AC adapter for BC191/BC193/BC160 rapid chargers with US plug	$25.00
BC123SE	220V AC adapter for BC191/BC193/BC160 rapid chargers	$27.00
BC157S	110V power supply for 6 bank gang chargers	$120.00
BC157S 220V	220V power supply for the 6 bank gang chargers	$126.00
BC213	Rapid charger with a US plug for radios with the BP279 battery (BC-123S included)	$42.00
BC214	Six bank charger with US plug AC adapter and cups installed	$495.00
BC214E	Six bank charger with EURO plug AC adapter and cups installed	$495.00
CP23L	12V cigarette lighter cable for use with BC-119N/160/191/193/213	$35.00

F1000/S/T – F2000/S/T Series

VHF AND UHF TRANSCEIVERS

Accessories

Model	Description	MSRP
MB130	Vehicle charger bracket designed to hold a rapid charger allowing battery to charge while in a vehicle. Requires charger & CP17L. Will not work with the BC119N.	$83.00
Headsets		
HS94	Earpiece headset; use with VS1/OPC2004/OPC2006/OPC1392	$25.00
HS95	Headset with boom mic; use with VS1/OPC2004/OPC2006/OPC1392	$215.00
HS97	Earphone with throat mic headset; use with VS1/OPC2004/OPC2006/OPC1392	$42.00
VS4L	PTT switch cable to communicate using the HS94/95/97	$0.00
Microphones		
HM158LA	Compact speaker microphone with revolving clip and earphone jack (right angle 2-pin screw down connector, stereo mic/mono speaker)	$47.00
HM159LA	Large speaker microphone with earphone jack and metal alligator clip (right angle 2-pin screw down connector, stereo mic/mono speaker)	$77.00
HM-HD7I7WP	Large waterproof speaker microphone with 3.5mm accessory jack (right angle 2-pin screw down connector)	$110.00
Programming Software & Cables		
CSF2000	Programming software for the F1000/2000 series	$72.00
OPC478	PC to handheld programming cable with RS-232S connector for radios with 2-pin connectors	$60.00
OPC478UC	PC to handheld programming cable with USB connector for radios with 2-pin connectors	$70.00
PROGLM1234	Icom to program your radio or IAS product	$42.00
Wire Kits		
HM153LA	Covert durable microphone with earphone combination (right angle 2-pin screw down connector)	$125.00
HM166LA	Earphone microphone with 2-pin right angle connector	$53.00

F14 – F24 Series

Entry Level Portables

SPECS

Frequencies:	136-174, 400-470, 450-512MHz
Output Power:	4W (UHF); 5W (VHF)
Channels:	16
Channel Spacing:	12.5kHz
Mil Spec:	810 C, D, E
Scan:	Normal & Priority
Weight:	10.4oz (with BP-232H)

FEATURES

LED low battery alert
TOT function and lock out penalty timer
2 Step power saver
500mW loud and clear audio
Optional VOX headset for hands free operation
Embedded ESN (Electronic Serial Number)
Unit Down Option: UT-124

COMES WITH

Antenna (FA-SC55V or FA-SC57U)
Battery (BP-232H)
Belt Clip (MB-94)
Owner's manual
Warranty: 2 years

ENCRYPTION

Simple Inversion: UT-109 32 Codes
Rolling Code: UT-110 1020 Codes

SIGNALING

CTCSS / DTCS encode & decode
Built-In 2-Tone, 5-Tone
MDC1200

- PTT ID (transmit only)
- Emergency Call (transmit only)

DTMF Decode Option: UT-108

Meets MIL-STD 810

OTTO ACCESSORIES AVAILABLE

MDC 1200 Compatible

F14 – F24 Series

Entry Level Portables

Configurations

Model	Description	MSRP
F14 05 RC	Radio with rapid charger in the box (BC-160 01)	$330.00
F24 01	400-470 MHz radio only	$303.00
F24 07 RC	Radio with rapid charger in the box (BC-160 01)	$350.00
F24 02	450-512MHz radio only	$303.00
F24 27 RC	Radio with rapid charger in the box (BC-160 01)	$350.00

Accessories

Model	Description	MSRP
EXTWARR211	1 year extended warranty for a total 3 years	$25.00
EXTWARR212	2 year extended warranty for a total 4 years	$44.00
EXTWARR213	3 year extended warranty for a total 5 years	$62.00
Antennas		
CEN EXD 400 MXI	400-430MHz stubby antenna for land mobile portable radios	$14.50
FASC25U	400-430MHz antenna for LM portables	$13.00
FASC25V	136-150MHz antenna for LM portables	$13.00
FASC55V	146-174MHz standard antenna for LM portables	$13.00
FASC56VS	150-160MHz stubby antenna for LM portables	$14.50
FASC57U	440-470MHz standard antenna for LM radios (red ring)	$13.00
FASC57VS	160-174MHz stubby antenna for LM portables	$14.50
FASC61UC	380-520MHz cut antenna for the specific frequency desired	$16.00
FASC61VC	136-174MHz cut antenna for the specific frequency desired	$16.00
FASC62V	150-160MHz high gain antenna for LM portables (10")	$55.00
FASC63V	155-165MHz high gain antenna for LM portables (9.5")	$55.00
FASC72U	470-512MHz antenna for LM portables	$13.00
FASC73US	450-470MHz stubby antenna for LM portable radios	$14.50
LAIRD EXH 160 MXI	155-160MHz antenna	$26.00
LARSEN SPHL10160IC	155-160MHz antenna	$26.00
Batteries		
BP232H	Li-ion 7.4V 2300mAh (typical capacity), 2250mAh (minimum value)	$75.00
BP240	Battery case that holds 6 AAA alkaline batteries (1W output power)	$35.00
Belt Clips		
AW STUD	Metal stud that slides on where the belt clip goes. Requires AW Swivel	$12.00
AW STUD/SWIVEL KIT	Metal stud that slides on like a belt clip and it's attached to a strong metal swivel belt clip	$21.00
AW SWIVEL	Swivel clip used with the AW Stud/Swivel Kit.	$13.00
MB93	Swivel belt clip	$11.00
MB94	Alligator belt clip	$10.50
MB94R	Alligator belt clip with long clip that angles the antenna/top of radio off the body	$18.00
MB96F	Leather belt hanger. Use with the MB103/Y, MB94 or MB98.	$35.00
MB96N	Swivel belt hanger. Use with the MB103/Y, MB94 or MB98.	$37.00
Cables		
OPC515L	DC power cable for single unit rapid chargers	$26.00
OPC656	DC power cable for BC121N or BC197 gang chargers	$12.00

F14 – F24 Series

Entry Level Portables

Accessories

Model	Description	MSRP
Carrying Cases		
LCF14 LOOP	Leather carrying case with a loop F14/24 & F3011/4011 radios	$38.00
LCF14 SWIVEL	Leather carrying case with a swivel F14/24 & F3011/4011 radios	$50.00
NCF14 CLIP	Nylon carrying case with a clip F14/24 & F3011/4011 radios	$27.00
NCF14 LOOP	Nylon carrying case with a loop F14/24 & F3011/4011 radios	$25.00
Chargers		
AD106	Adapter cup to install in the BC119N or BC121N for the radios with the BP232N/H battery	$28.00
AD122	Adapter cup that fits into the BC197 22/23 for the BP232N/H batteries	$23.00
BC119N 01	110V rapid charger - requires radio specific adapter cup(not CEC compatible for Amateur/Marine radios)	$75.00
BC119N 02	220V rapid charger - requires radio specific adapter cup	$76.00
BC121N	6 unit multi-charger; requires radio specific adapter cups & BC157 AC adapter	$305.00
BC121N AD106 220V KIT	6 unit 220V gang charger kit BC121N + BC157S 09 + AD106 x 6	$593.00
BC121N AD106 KIT	6 unit 117V gang charger kit BC121N + BC157S 07 + AD106 x 6	$593.00
BC145SA 31	110V AC adapter for rapid chargers	$25.00
BC145SE 32	220V AC adapter for rapid chargers	$25.00
BC147SA 14	110-240V AC adapter for trickle chargers with a US plug	$15.00
BC147SE 15	230V AC adapter for trickle chargers with a European plug	$16.00
BC157S	110V power supply for 6 bank gang chargers	$120.00
BC157S 220V	220V power supply for the 6 bank gang chargers	$126.00
BC160	Rapid charger with a US plug for radios with the BP230/231/232 batteries	$67.00
BC160E	Rapid charger with European plug for radios with the BP230/231/232 batteries	$67.00
BC171 01	110V drop-in trickle charger for radios with the BP230/231/232 batteries	$47.00
BC171 02	220V drop-in trickle charger for radios with the BP230/231/232 batteries	$45.00
BC197 22	110V six unit charger for radios with the BP232N/H Li-Ion battery (includes AC adapter and cups installed)	$510.00
BC197 23	220V 6 unit charger for radios with the BP232N/H Li-Ion battery (includes AC adapter and cups installed)	$510.00
CP17L	12V cigarette lighter cable for use with BC-119N/BC-160	$30.00
CP23L	12V cigarette lighter cable for use with BC-119N/160/191/193/213	$35.00
IA-TC100B	Travel charger piece the BC-160/BC-171 fits into. Req CP1/CP17L or OPC515L	$45.00
MB130	Vehicle charger bracket designed to hold a rapid charger allowing battery to charge while in a vehicle. Requires charger & CP17L. Will not work with the BC119N.	$83.00
Headsets		
HS94	Earpiece headset; use with VS1/OPC2004/OPC2006/OPC1392	$25.00
HS95	Headset with boom mic; use with VS1/OPC2004/OPC2006/OPC1392	$215.00
HS97	Earphone with throat mic headset; use with VS1/OPC2004/OPC2006/OPC1392	$42.00
OTTO V110519	Barrel PTT - connects to headsets with pigtail	$120.00
OTTO V410395	Behind-the-head style, noise attenuating headset (2-pin right angle connector)	$360.00
OTTO V410479	Lightweight single speaker headset (2-pin screw down connector)	$121.00
OTTO V410480	Over the head style w/ NC Boom Mic, in-line ptt (2-pin screw down connector)	$350.00
OTTO V4BA2CS1	Breeze behind-the-head headset, single speaker with left boom mic with 2-pin right angle screw down connector	$107.00
OTTO V4EX2CC5	Explorer lightweight headset with flexible earloop w/boom mic (2-pin right angle connector)	$90.00
OTTO V4EX2CS5	Explorer lightweight headset with flexible earloop w/boom mic (2-pin right angle screw down	$145.00

F14 – F24 Series

Entry Level Portables

Accessories

Model	Description	MSRP
	connector)	
VS1L	VOX/PTT case with 2-pin right angle connector. Must use with HS94/HS95/HS97	$44.00
Internal Modules		
INSTALLLM1234	Icom installation charge	$40.00
UT108	DTMF decoder and ANI board	$39.00
UT109 01	Non-rolling voice scrambler. Up to 32 codes available. Not compatible with radios using the UT-110.	$105.00
UT110 01	Rolling voice scrambler. Up to 1020 (255 codes x 4 groups) codes available.	$173.00
UT124 01	Man down unit	$90.00
Manuals		
94414913	F14/F24 CD service manual	$40.00
97714922	F14/F14S service manual hardcopy	$40.00
97714932	F24/F24S service manual hardcopy	$40.00
98814946	F14/F24 owner's manual	$12.00
Microphones		
HM158LA	Compact speaker microphone with revolving clip and earphone jack (right angle 2-pin screw down connector, stereo mic/mono speaker)	$47.00
HM159LA	Large speaker microphone with earphone jack and metal alligator clip (right angle 2-pin screw down connector, stereo mic/mono speaker)	$77.00
HM-HD7I7WP	Large waterproof speaker microphone with 3.5mm accessory jack (right angle 2-pin screw down connector)	$110.00
IMPACT HD3-I3	Heavy duty speaker mic w/3.5mm accessory jack (2-pin screw down connector)	$59.00
KLEIN SCORPION	Listen Only earloop/earbud that plugs into speaker microphone	$17.00
OTTO V110282	Speaker mic earpiece(2.5mm straight plug)	$50.00
OTTO V110432	Speaker mic earpiece (2.5mm right angle plug)	$60.00
OTTO V110433	Speaker mic earpiece (3.5mm right angle plug)	$60.00
OTTO V210200	Evolution heavy duty mic with hi/lo volume switch, 2.5mm earphone jack and 2-pin right angle connector	$93.00
OTTO V210288	Evolution heavy duty mic with hi/lo volume switch, 2.5mm earphone jack and 2-pin right angle screw down connector	$113.00
OTTO V2C2CS11	Legacy speaker microphone (2-pin screw down connector)	$48.00
OTTO V2L2CC11	Profile speaker mic with 2-pin right angle connector	$88.00
OTTO V2L2CS11	Profile speaker mic with 2.5mm earphone jack and 2-pin right angle screw down connector	$93.00
SP13	Earphone for speaker mics/handhelds	$5.00
Programming Software & Cables		
CSF14	F14/F24 Program Sftwre w/ MDC	$75.00
OPC478	PC to handheld programming cable with RS-232S connector for radios with 2-pin connectors	$60.00
OPC478UC	PC to handheld programming cable with USB connector for radios with 2-pin connectors	$70.00
PROGLM1234	Icom to program your radio or IAS product	$42.00
RedHawk		
IAS BC-RHADPTR	100-240V charger adapter for use with the IAS OPC-RHUSB	$70.00
IAS BC-RHCHG1	100-240V single unit charger for RedHawk mic	$105.00
IAS BC-RHCHG12	100-240V 12 unit charger for the RedHawk mics	$1,000.00
IAS BP-RHBATT1	3.8V 1200mAh battery for RedHawk mic	$45.00

F14 – F24 Series

Entry Level Portables

Accessories

Model	Description	MSRP
IAS CP-RHLP	12-24V cigarette lighter plug requiring 2 USB cables	$60.00
IAS CS-RHSW	Utility software to upload stored tracks, optional PC programming, online demos. One per customer needed.	$120.00
IAS OPC-RHI2	RedHawk 2-pin cable connects GPS mic to radio	$93.00
IAS OPC-RHUSB	USB cable to connect mic with PC or charger adapter. One comes with each microphone.	$30.00
IAS REDHAWK	Speaker microhpone with GPS receiver. LCD display shows basic orientation of all members within a group. Battery & USB cable included. Cable that hooks from microphone to radio is required.	$584.00
Wire Kits		
HM128L	Earphone/mic with 2-pin right angle connector	$28.50
HM153LA	Covert durable microphone with earphone combination (right angle 2-pin screw down connector)	$125.00
HM166LA	Earphone microphone with 2-pin right angle connector	$53.00
OTTO E1EB2CC131	1-wire kit with earbud and in-line mic with 2-pin right angle connector	$10.00
OTTO E1ET2CS131	2-wire D-hanger with in line mic/ptt with 2-pin right angle connector	$32.00
OTTO V110756	2-Wire palm mic kit with 2-pin right angle screw down connector	$98.00
OTTO V1T12CS117	Throat mic system w/acoustic tube ear piece and 80mm body PTT with right angle 2-pin right angle connector	$595.00

F3101D – F4101D Series

IDAS™ Entry Level Portables

SPECS

Frequencies:	136-174, 400-470, 450-512MHz
Output Power:	5W (VHF); 4W (UHF)
Channels:	16
Channel Spacing:	12.5 / 6.25kHz
Mil Spec:	810 C, D, E
Scan:	Normal & priority
Weight:	11.3oz (with BP-265)
Waterproof Rating:	IP54 dust and splash proof

FEATURES

General Features:

- Lone worker function
- 800mW loud audio
- Channel announcement

Digital Features:

- IDAS™ conventional
- IDAS™ single-site trunking
- Digital / Analog mixed mode operation
- NXDN® Digital Air Interface
- AMBE+2™ VOCODER
- 64 Radio Access Numbers (RAN)

SIGNALING

CTCSS / DCS / DTMF encode & decode
2/5 Tone encode & decode
MDC1200 (PTT ID & Emergency)

COMES WITH

Rapid Charger (BC-193)
Antenna (FA-SC55V or FA-SC57U)
Battery (BP-265)
Belt Clip (MB-124)
Owner's manual
Warranty: 2 years

IP54 DUST PROTECTION & SPLASH PROOF

Meets MIL-STD 810

OTTO ACCESSORIES AVAILABLE

iDAS ICOM DIGITAL ADVANCED SYSTEM

F3101D – F4101D Series

IDAS™ Entry Level Portables

Configurations

Model	Description	MSRP
F3101D 02 RC	136-174MHz radio with 1900mAh Li-ion battery and rapid charger in the box	$555.00
F4101D 02 RC	400-470MHz radio with 1900mAh Li-ion battery & rapid charger in the box	$555.00
F4101D 36 RC	450-512MHz radio with 1900mAh Li-ion battery & rapid charger in the box	$555.00

Accessories

Model	Description	MSRP
EXTWARR211	1 year extended warranty for a total 3 years	$25.00
EXTWARR212	2 year extended warranty for a total 4 years	$44.00
EXTWARR213	3 year extended warranty for a total 5 years	$62.00
Antennas		
CEN EXD 400 MXI	400-430MHz stubby antenna for land mobile portable radios	$14.50
FASC25U	400-430MHz antenna for LM portables	$13.00
FASC25V	136-150MHz antenna for LM portables	$13.00
FASC55V	146-174MHz standard antenna for LM portables	$13.00
FASC56VS	150-160MHz stubby antenna for LM portables	$14.50
FASC57U	440-470MHz standard antenna for LM radios (red ring)	$13.00
FASC57VS	160-174MHz stubby antenna for LM portables	$14.50
FASC61UC	380-520MHz cut antenna for the specific frequency desired	$16.00
FASC61VC	136-174MHz cut antenna for the specific frequency desired	$16.00
FASC62V	150-160MHz high gain antenna for LM portables (10")	$55.00
FASC63V	155-165MHz high gain antenna for LM portables (9.5")	$55.00
FASC72U	470-512MHz antenna for LM portables	$13.00
FASC73US	450-470MHz stubby antenna for LM portable radios	$14.50
LAIRD EXH 160 MXI	155-160MHz antenna	$26.00
LARSEN SPHL10160IC	155-160MHz antenna	$26.00
Batteries		
BP263	Battery case that holds 6 AA alkaline batteries	$30.00
BP265	1900mAh Li-ion	$62.00
Belt Clips		
MB124	Alligator type belt clip	$12.00
Cables		
OPC515L	DC power cable for single unit rapid chargers	$26.00
OPC656	DC power cable for BC121N or BC197 gang chargers	$12.00
Carrying Cases		
LCF3000 SWIVEL	Leather carrying case with a swivel for the F3001/4001 & F3101D/4101D radios	$50.00
NCF3000 CLIP	Nylon carrying case with a clip for the F3001/4001 & F3101D/4101D radios	$27.00
Chargers		
AD121	Adapter cup that fits into the BC197 12/13 for the BP265 Li-ion battery	$23.00
BC123SA 51	AC adapter for BC191/BC193/BC160 rapid chargers with US plug	$25.00
BC123SE	220V AC adapter for BC191/BC193/BC160 rapid chargers	$27.00
BC157S	110V power supply for 6 bank gang chargers	$120.00

F3101D – F4101D Series

IDAS™ Entry Level Portables

Accessories

Model	Description	MSRP
BC157S 220V	220V power supply for the 6 bank gang chargers	$126.00
BC193	110V rapid charger for the Li-Ion BP265	$67.00
BC197 12	110V six unit charger for radios with the BP265 Li-Ion battery (includes AC adapter and cups installed)	$510.00
BC197 13	220V six unit charger for radios with the BP265 Li-Ion battery (includes AC adapter and cups installed)	$510.00
CP17L	12V cigarette lighter cable for use with BC-119N/BC-160	$30.00
CP23L	12V cigarette lighter cable for use with BC-119N/160/191/193/213	$35.00
MB130	Vehicle charger bracket designed to hold a rapid charger allowing battery to charge while in a vehicle. Requires charger & CP17L. Will not work with the BC119N.	$83.00
Headsets		
HS94	Earpiece headset; use with VS1/OPC2004/OPC2006/OPC1392	$25.00
HS95	Headset with boom mic; use with VS1/OPC2004/OPC2006/OPC1392	$215.00
HS97	Earphone with throat mic headset; use with VS1/OPC2004/OPC2006/OPC1392	$42.00
OPC2004	Adapter plug to to use the HS94/95/97 for the F3001/4001/3101D/4101D & V80	$30.00
OTTO V110519	Barrel PTT - connects to headsets with pigtail	$120.00
OTTO V410479	Lightweight single speaker headset (2-pin screw down connector)	$121.00
OTTO V410480	Over the head style w/ NC Boom Mic, in-line ptt (2-pin screw down connector)	$350.00
OTTO V4BA2CS1	Breeze behind-the-head headset, single speaker with left boom mic with 2-pin right angle screw down connector	$107.00
OTTO V4EX2CS5	Explorer lightweight headset with flexible earloop w/boom mic (2-pin right angle screw down connector)	$145.00
Manuals		
94415593	F3101D CD service manual	$40.00
94415609	F4101D CD service manual	$40.00
97715592	F3101D service manual - hardcopy	$40.00
97715608	F4101D service manual hardcopy	$40.00
98815591	F3101D/4101D owner's manual	$12.00
Microphones		
HM158LA	Compact speaker microphone with revolving clip and earphone jack (right angle 2-pin screw down connector, stereo mic/mono speaker)	$47.00
HM159LA	Large speaker microphone with earphone jack and metal alligator clip (right angle 2-pin screw down connector, stereo mic/mono speaker)	$77.00
HM171GP	2-pin GPS mic for F3101D/4101D series	$360.00
HM-HD7I7WP	Large waterproof speaker microphone with 3.5mm accessory jack (right angle 2-pin screw down connector)	$110.00
IMPACT HD3-I3	Heavy duty speaker mic w/3.5mm accessory jack (2-pin screw down connector)	$59.00
OTTO V110432	Speaker mic earpiece (2.5mm right angle plug)	$60.00
OTTO V110433	Speaker mic earpiece (3.5mm right angle plug)	$60.00
OTTO V210288	Evolution heavy duty mic with hi/lo volume switch, 2.5mm earphone jack and 2-pin right angle screw down connector	$113.00
OTTO V2C2CS11	Legacy speaker microphone (2-pin screw down connector)	$48.00
OTTO V2L2CS11	Profile speaker mic with 2.5mm earphone jack and 2-pin right angle screw down connector	$93.00
Programming Software & Cables		
CSF3101D/F5121D	F3101D/F5121D series programming software	$72.00

F3101D – F4101D Series

IDAS™ Entry Level Portables

Accessories

Model	Description	MSRP
OPC474	Radio to radio cloning cable (3.5mm to 3.5mm)	$20.00
OPC478	PC to handheld programming cable with RS-232S connector for radios with 2-pin connectors	$60.00
OPC478UC	PC to handheld programming cable with USB connector for radios with 2-pin connectors	$70.00
PROGLM6789	Icom to program your radio or IAS product	$70.00
RedHawk		
IAS REDHAWK	Speaker microhpone with GPS receiver. LCD display shows basic orientation of all members within a group. Battery & USB cable included. Cable that hooks from microphone to radio is required.	$584.00
Wire Kits		
HM128L	Earphone/mic with 2-pin right angle connector	$28.50
HM153LA	Covert durable microphone with earphone combination (right angle 2-pin screw down connector)	$125.00
HM166LA	Earphone microphone with 2-pin right angle connector	$53.00
OTTO E1EB2CC131	1-wire kit with earbud and in-line mic with 2-pin right angle connector	$10.00
OTTO E1ET2CS131	2-wire D-hanger with in line mic/ptt with 2-pin right angle connector	$32.00
OTTO V110756	2-Wire palm mic kit with 2-pin right angle screw down connector	$98.00
OTTO V1T12CS117	Throat mic system w/acoustic tube ear piece and 80mm body PTT with right angle 2-pin right angle connector	$595.00

F3210D – F4210D Series

VHF and UHF Digital Transceivers

SPECS

Frequencies:	136-174, 400-470, 450-512
Output Power:	5W (VHF); 4W (UHF)
Channels:	16
Channel Spacing:	15 / 12.5 / 6.25kHz
Mil Spec:	810 C, D, E and -F
Scan:	Priority/Vote/Roaming scan
Weight:	11.3oz (with MB-124, BP-265)
Waterproof Rating:	IP54 dust and splash proof

FEATURES

General Features:

- 800mW loud audio output from the large 45mm speaker
- Channel announcement
- Internal VOX capability
- Low battery alert
- Time out timer
- Lone worker function
- 2-step power save
- Talk around function
- Surveillance function

Digital Features:

- NXDN™ CAI-based IDAS digital mode operation
- PTT ID (TX)
- Block decode
- Radio check (RX)
- Call alert
- Emergency
- GPS (TX with HM-171GP)
- Individual/Group call
- RAN (Radio Access Number)
- Stun/kill/revive (RX)
- Remote monitor (RX)
- Digital voice scrambler

SIGNALING

CTCSS / DTCS encode & decode (analog only)

COMES WITH

Antenna (FA-SC55V or FA-SC57U)
Battery (BP-265)
Charger (BC-193)
Belt Clip (MB-124)
Owner's manual
Warranty: 2 years

IP54 DUST PROTECTION & SPLASH PROOF

Meets MIL-STD 810

iDAS ICOM DIGITAL ADVANCED SYSTEM

F3210D – F4210D Series

VHF and UHF Digital Transceivers

Configurations

Model	Description	MSRP
F3210D 01	136-174MHz IDAS 16 channel MultiTrunk portable with rapid charger (BC193)	$600.00
F4210D 01	400-470MHz IDAS 16 channel MultiTrunk portable with rapid charger (BC193)	$600.00
F4210D 21	450-512MHz IDAS 16 channel MultiTrunk portable with rapid charger (BC193)	$600.00

Accessories

Model	Description	MSRP
EXTWARR211	1 year extended warranty for a total 3 years	$25.00
EXTWARR212	2 year extended warranty for a total 4 years	$44.00
EXTWARR213	3 year extended warranty for a total 5 years	$62.00
Antennas		
FASC25U	400-430MHz antenna for LM portables	$13.00
FASC25V	136-150MHz antenna for LM portables	$13.00
FASC55V	146-174MHz standard antenna for LM portables	$13.00
FASC56VS	150-160MHz stubby antenna for LM portables	$14.50
FASC57U	440-470MHz standard antenna for LM radios (red ring)	$13.00
FASC57VS	160-174MHz stubby antenna for LM portables	$14.50
FASC61UC	380-520MHz cut antenna for the specific frequency desired	$16.00
FASC61VC	136-174MHz cut antenna for the specific frequency desired	$16.00
FASC62V	150-160MHz high gain antenna for LM portables (10")	$55.00
FASC63V	155-165MHz high gain antenna for LM portables (9.5")	$55.00
FASC72U	470-512MHz antenna for LM portables	$13.00
FASC73US	450-470MHz stubby antenna for LM portable radios	$14.50
LARSEN SPHL10160IC	155-160MHz antenna	$26.00
Batteries		
BP263	Battery case that holds 6 AA alkaline batteries	$30.00
BP265	1900mAh Li-ion	$62.00
Belt Clips		
MB124	Alligator type belt clip	$12.00
Cables		
OPC515L	DC power cable for single unit rapid chargers	$26.00
OPC656	DC power cable for BC121N or BC197 gang chargers	$12.00
Chargers		
AD121	Adapter cup that fits into the BC197 12/13 for the BP265 Li-ion battery	$23.00
BC123SA 51	AC adapter for BC191/BC193/BC160 rapid chargers with US plug	$25.00
BC123SE	220V AC adapter for BC191/BC193/BC160 rapid chargers	$27.00
BC157S	110V power supply for 6 bank gang chargers	$120.00
BC157S 220V	220V power supply for the 6 bank gang chargers	$126.00
BC193	110V rapid charger for the Li-Ion BP265	$67.00
BC197 12	110V six unit charger for radios with the BP265 Li-Ion battery (includes AC adapter and cups installed)	$510.00
BC197 13	220V six unit charger for radios with the BP265 Li-Ion battery (includes AC adapter and cups installed)	$510.00

F3210D – F4210D Series

VHF and UHF Digital Transceivers

Accessories

Model	Description	MSRP
CP23L	12V cigarette lighter cable for use with BC-119N/160/191/193/213	$35.00
MB130	Vehicle charger bracket designed to hold a rapid charger allowing battery to charge while in a vehicle. Requires charger & CP17L. Will not work with the BC119N.	$83.00
Headsets		
HS94	Earpiece headset; use with VS1/OPC2004/OPC2006/OPC1392	$25.00
HS95	Headset with boom mic; use with VS1/OPC2004/OPC2006/OPC1392	$215.00
HS97	Earphone with throat mic headset; use with VS1/OPC2004/OPC2006/OPC1392	$42.00
OPC2004	Adapter plug to to use the HS94/95/97 for the F3001/4001/3101D/4101D & V80	$30.00
Manuals		
94416646	F3210D/4210D CD service manual	$40.00
97716645	F3210D/4210D service manual hardcopy	$40.00
98816644	F3210D/4210D owner's manual	$12.00
Microphones		
HM158LA	Compact speaker microphone with revolving clip and earphone jack (right angle 2-pin screw down connector, stereo mic/mono speaker)	$47.00
HM159LA	Large speaker microphone with earphone jack and metal alligator clip (right angle 2-pin screw down connector, stereo mic/mono speaker)	$77.00
HM171GP	2-pin GPS mic for F3101D/4101D series	$360.00
HM-HD7I7WP	Large waterproof speaker microphone with 3.5mm accessory jack (right angle 2-pin screw down connector)	$110.00
IMPACT HD3-I3	Heavy duty speaker mic w/3.5mm accessory jack (2-pin screw down connector)	$59.00
Programming Software & Cables		
CSF3210D	F3210D/4210D, CSF3230D/4230D & F5220D/6220D programming software	$72.00
OPC478	PC to handheld programming cable with RS-232S connector for radios with 2-pin connectors	$60.00
OPC478UC	PC to handheld programming cable with USB connector for radios with 2-pin connectors	$70.00
PROGLM6789	Icom to program your radio or IAS product	$70.00
Wire Kits		
HM128L	Earphone/mic with 2-pin right angle connector	$28.50
HM153LA	Covert durable microphone with earphone combination (right angle 2-pin screw down connector)	$125.00
HM166LA	Earphone microphone with 2-pin right angle connector	$53.00
SP27	Acoustic tube earphone with a clip to attach to clothing	$35.00

F3031S – F4031S Series

Submersible Portables

SPECS

Frequencies:	136-174, 400-470, 450-512MHz
Output Power:	5W (VHF); 4W (UHF)
Channels:	128 / 8 zones
Channel Spacing:	12.5kHz
LCD Display:	8 character alphanumeric
Programmable Keys:	8
Mil Spec:	810 C, D, E
Scan:	Normal & priority
Weight:	10.9oz (with BP-232WP)
Waterproof Rating:	IP67 submersible & dust-tight

FEATURES

TOT function & lock out penalty timer
2-step power save
Surveillance function; temporary LED blackout
Lone worker function
Mode dependent scan
Man down: UT-124R

SIGNALING

CTCSS / DTCS, Encode
DTMF Decode: UT-108R
2/5 Tone Encode/Decode

- Up to 10 2-tone codes can be decoded on a channel
- Up to 8 5-tone codes can be decoded on a channel
- Programmable items for codes: Beep sound, Answer back, Scan, Bell icon, Radio stun/kill

MDC1200

- PTT ID (Tx/Rx)
- Emergency (Tx/Rx)
- Radio check (Rx)
- Stun/revive (Rx)
- 5 alias table

COMES WITH

Antenna (FA-SC55V or FA-SC57U)
Battery (BP-232WP)
Belt Clip (MB-94)
Owner's manual
Warranty: 2 years
Codes

ENCRYPTION

Simple Inversion: UT-109R 32 Codes
Rolling Code: UT110R 1020 Codes

IP54 DUST PROTECTION & SPLASH PROOF

Meets MIL-STD 810

OTTO ACCESSORIES AVAILABLE

MDC 1200 Compatible

F3031S – F4031S Series

Submersible Portables

Configurations

Model	Description	MSRP
F3031S 81	136-174MHz radio only no DTMF keypad	$350.00
F3031T 91	136-174MHz waterproof 128 channel, portable radio with a display and DTMF keypad	$375.00
F4031T 92	400-470MHz waterproof 128 channel, portable radio with a display and DTMF keypad	$375.00
F4031S 72	400-470MHz radio only no DTMF keypad	$350.00
F4031S 73	450-512MHz radio only no DTMF keypad	$350.00

Accessories

Model	Description	MSRP
EXTWARR211	1 year extended warranty for a total 3 years	$25.00
EXTWARR212	2 year extended warranty for a total 4 years	$44.00
EXTWARR213	3 year extended warranty for a total 5 years	$62.00
Antennas		
FASC25U	400-430MHz antenna for LM portables	$13.00
FASC25V	136-150MHz antenna for LM portables	$13.00
FASC55V	146-174MHz standard antenna for LM portables	$13.00
FASC56VS	150-160MHz stubby antenna for LM portables	$14.50
FASC57U	440-470MHz standard antenna for LM radios (red ring)	$13.00
FASC57VS	160-174MHz stubby antenna for LM portables	$14.50
FASC61UC	380-520MHz cut antenna for the specific frequency desired	$16.00
FASC61VC	136-174MHz cut antenna for the specific frequency desired	$16.00
FASC62V	150-160MHz high gain antenna for LM portables (10")	$55.00
FASC63V	155-165MHz high gain antenna for LM portables (9.5")	$55.00
FASC72U	470-512MHz antenna for LM portables	$13.00
FASC73US	450-470MHz stubby antenna for LM portable radios	$14.50
Batteries		
BP232WP	Li-ion 7.4V 2300mAh (typical capacity), 2250mAh (minimum value) IP67 waterproof battery	$75.00
BP240	Battery case that holds 6 AAA alkaline batteries (1W output power)	$35.00
Belt Clips		
AW STUD	Metal stud that slides on where the belt clip goes. Requires AW Swivel	$12.00
AW STUD/SWIVEL KIT	Metal stud that slides on like a belt clip and it's attached to a strong metal swivel belt clip	$21.00
AW SWIVEL	Swivel clip used with the AW Stud/Swivel Kit.	$13.00
MB93	Swivel belt clip	$11.00
MB94	Alligator belt clip	$10.50
MB94R	Alligator belt clip with long clip that angles the antenna/top of radio off the body	$18.00
MB96F	Leather belt hanger. Use with the MB103/Y, MB94 or MB98.	$35.00
MB96N	Swivel belt hanger. Use with the MB103/Y, MB94 or MB98.	$37.00
Cables		
OPC515L	DC power cable for single unit rapid chargers	$26.00
OPC656	DC power cable for BC121N or BC197 gang chargers	$12.00
Carrying Cases		
LCF3021S CLIP	Leather carrying case with a clip and cutout for the display	$45.00
LCF3021S LOOP	Leather carrying case with a loop and cutout for the display	$38.00

F3031S – F4031S Series

Submersible Portables

Accessories

Model	Description	MSRP
LCF3021S SWIVEL	Leather carrying case with a metal swivel clip and cutout for the display	$50.00
LCF3021T CLIP	Leather carrying case with a clip and cutout for display and keypad	$45.00
LCF3021T SWIVEL	Leather carrying case with a metal swivel clip and cutout for display and keypad	$50.00
NCF3021S CLIP	Nylon carrying case with a clip and cutout for the display	$27.00
NCF3021S LOOP	Nylon carrying case with a loop and cutout for the display	$25.00
NCF3021T CLIP	Nylon carrying case with a clip and cutout for the display and keypad	$27.00
Chargers		
AD106	Adapter cup to install in the BC119N or BC121N for the radios with the BP232N/H battery	$28.00
AD122	Adapter cup that fits into the BC197 22/23 for the BP232N/H batteries	$23.00
BC119N 01	110V rapid charger - requires radio specific adapter cup(not CEC compatible for Amateur/Marine radios)	$75.00
BC119N 02	220V rapid charger - requires radio specific adapter cup	$76.00
BC121N	6 unit multi-charger; requires radio specific adapter cups & BC157 AC adapter	$305.00
BC121N AD106 220V KIT	6 unit 220V gang charger kit BC121N + BC157S 09 + AD106 x 6	$593.00
BC121N AD106 KIT	6 unit 117V gang charger kit BC121N + BC157S 07 + AD106 x 6	$593.00
BC145SA 31	110V AC adapter for rapid chargers	$25.00
BC145SE 32	220V AC adapter for rapid chargers	$25.00
BC147SA 14	110-240V AC adapter for trickle chargers with a US plug	$15.00
BC147SE 15	230V AC adapter for trickle chargers with a European plug	$16.00
BC157S	110V power supply for 6 bank gang chargers	$120.00
BC157S 220V	220V power supply for the 6 bank gang chargers	$126.00
BC160	Rapid charger with a US plug for radios with the BP230/231/232 batteries	$67.00
BC160E	Rapid charger with European plug for radios with the BP230/231/232 batteries	$67.00
BC171 01	110V drop-in trickle charger for radios with the BP230/231/232 batteries	$47.00
BC171 02	220V drop-in trickle charger for radios with the BP230/231/232 batteries	$45.00
BC197 22	110V six unit charger for radios with the BP232N/H Li-Ion battery (includes AC adapter and cups installed)	$510.00
BC197 23	220V 6 unit charger for radios with the BP232N/H Li-Ion battery (includes AC adapter and cups installed)	$510.00
CP17L	12V cigarette lighter cable for use with BC-119N/BC-160	$30.00
CP23L	12V cigarette lighter cable for use with BC-119N/160/191/193/213	$35.00
IA-TC100B	Travel charger piece the BC-160/BC-171 fits into. Req CP1/CP17L or OPC515L	$45.00
MB130	Vehicle charger bracket designed to hold a rapid charger allowing battery to charge while in a vehicle. Requires charger & CP17L. Will not work with the BC119N.	$83.00
Internal Modules		
INSTALLLM1234	Icom installation charge	$40.00
UT108R	DTMF decoder, ANI unit	$39.00
UT109R 21	Non-rolling voice scrambler. Up to 32 codes available. Not compatible with radios using the UT-110.	$105.00
UT110R 21	Rolling voice scrambler. Up to 1020 (255 codes x 4 groups) codes available. Works only in analog mode.	$173.00
UT124R 02	Man down unit	$90.00
Microphones		
HM158LA	Compact speaker microphone with revolving clip and earphone jack (right angle 2-pin screw down connector, stereo mic/mono speaker)	$47.00

F3031S – F4031S Series

Submersible Portables

Accessories

Model	Description	MSRP
HM159LA	Large speaker microphone with earphone jack and metal alligator clip (right angle 2-pin screw down connector, stereo mic/mono speaker)	$77.00
HM-HD7I7WP	Large waterproof speaker microphone with 3.5mm accessory jack (right angle 2-pin screw down connector)	$110.00
SP13	Earphone for speaker mics/handhelds	$5.00
Programming Software & Cables		
CSF3021/F5021/F5011	F3021/5021/5011 series programming software	$72.00
OPC478	PC to handheld programming cable with RS-232S connector for radios with 2-pin connectors	$60.00
OPC478UC	PC to handheld programming cable with USB connector for radios with 2-pin connectors	$70.00
PROGLM1234	Icom to program your radio or IAS product	$42.00
Wire Kits		
HM166LA	Earphone microphone with 2-pin right angle connector	$53.00

F3230D – F4230D Series

VHF and UHF IDAS Digital Portables

SPECS

Frequencies:	136-174, 400-470, 450-512
Output Power:	5W (VHF); 4W (UHF)
Channels:	128 channels / 8 zones
Channel Spacing:	12.5 / 6.25kHz
LCD Display:	8-character alphanumeric LCD
Mil Spec:	MIL 810G Also meets equivalent MIL-STD-810C, -D, -E and -F
Scan:	Roaming / Voting scan
Weight:	12oz (W/BP-232WP)
Waterproof Rating:	IP67 dust-tight and water proof

FEATURES

General Features:

- Channel announcement
- Low battery alert
- 2-step power save
- Time out timer
- BTL amp with 1000mW audio output
- Lone worker function

Digital Features:

- NXDN™ CAI-based IDAS digital mode operation
- IDAS multi-site and single-site trunking and IDAS multi-site conventional
- Up to 500 individual and up to 500 group ID aliases (Each for single-site/multi-site/conventional)
- PTT ID and ANI
- SDM (Short Data Message)
- Status
- RAN (Radio Access Number)
- Radio check (RX)
- Call alert
- Remote monitor (RX)
- Digital voice scrambler
- ATB (All Trunks Busy) ring back

SIGNALING

CTCSS / DTCS encode & decode (analog only)

COMES WITH

Antenna (FA-SC55V or FA-SC57U)
Battery (BP-232WP)
Belt Clip (MB-94R)
Owner's manual
Warranty: 3 years

IP67 Meets MIL-STD 810 iDAS

F3230D – F4230D Series

VHF and UHF IDAS Digital Portables

Configurations

Model	Description	MSRP
F3230DS 13	136-174MHz IDAS 128 channel MultiTrunk portable with display	$610.00
F4230DS 13	400-470MHz IDAS 128 channel MultiTrunk portable with display	$610.00
F4230DS 32	450-512MHz IDAS 128 channel MultiTrunk portable with display	$610.00

Accessories

Model	Description	MSRP
EXTWARR611	1 year extended warranty	$40.00
EXTWARR612	2 year extended warranty	$70.00
EXTWARR613	3 year extended warranty	$110.00
Antennas		
FASC25U	400-430MHz antenna for LM portables	$13.00
FASC25V	136-150MHz antenna for LM portables	$13.00
FASC55V	146-174MHz standard antenna for LM portables	$13.00
FASC56VS	150-160MHz stubby antenna for LM portables	$14.50
FASC57U	440-470MHz standard antenna for LM radios (red ring)	$13.00
FASC57VS	160-174MHz stubby antenna for LM portables	$14.50
FASC61UC	380-520MHz cut antenna for the specific frequency desired	$16.00
FASC61VC	136-174MHz cut antenna for the specific frequency desired	$16.00
FASC62V	150-160MHz high gain antenna for LM portables (10")	$55.00
FASC63V	155-165MHz high gain antenna for LM portables (9.5")	$55.00
FASC72U	470-512MHz antenna for LM portables	$13.00
FASC73US	450-470MHz stubby antenna for LM portable radios	$14.50
LAIRD EXH 160 MXI	155-160MHz antenna	$26.00
LARSEN SPHL10160IC	155-160MHz antenna	$26.00
Batteries		
BP232WP	Li-ion 7.4V 2300mAh (typical capacity), 2250mAh (minimum value) IP67 waterproof battery	$75.00
Belt Clips		
AW F50 STUD/SWIVEL KIT	Metal stud that screws into the battery and a metal swivel clip that slides onto the stud	$21.00
AW STUD	Metal stud that slides on where the belt clip goes. Requires AW Swivel	$12.00
AW STUD/SWIVEL KIT	Metal stud that slides on like a belt clip and it's attached to a strong metal swivel belt clip	$21.00
AW SWIVEL	Swivel clip used with the AW Stud/Swivel Kit.	$13.00
MB93	Swivel belt clip	$11.00
MB94	Alligator belt clip	$10.50
MB94R	Alligator belt clip with long clip that angles the antenna/top of radio off the body	$18.00
MB96F	Leather belt hanger. Use with the MB103/Y, MB94 or MB98.	$35.00
MB96N	Swivel belt hanger. Use with the MB103/Y, MB94 or MB98.	$37.00
Cables		
OPC515L	DC power cable for single unit rapid chargers	$26.00
OPC656	DC power cable for BC121N or BC197 gang chargers	$12.00
Carrying Cases		
LCF3021S CLIP	Leather carrying case with a clip and cutout for the display	$45.00

F3230D – F4230D Series

VHF and UHF IDAS Digital Portables

Accessories

Model	Description	MSRP
LCF3021S LOOP	Leather carrying case with a loop and cutout for the display	$38.00
LCF3021S SWIVEL	Leather carrying case with a metal swivel clip and cutout for the display	$50.00
LCF3021T CLIP	Leather carrying case with a clip and cutout for display and keypad	$45.00
LCF3021T SWIVEL	Leather carrying case with a metal swivel clip and cutout for display and keypad	$50.00
NCF3021S CLIP	Nylon carrying case with a clip and cutout for the display	$27.00
NCF3021S LOOP	Nylon carrying case with a loop and cutout for the display	$25.00
NCF3021T CLIP	Nylon carrying case with a clip and cutout for the display and keypad	$27.00
Chargers		
AD106	Adapter cup to install in the BC119N or BC121N for the radios with the BP232N/H battery	$28.00
AD122	Adapter cup that fits into the BC197 22/23 for the BP232N/H batteries	$23.00
BC121N	6 unit multi-charger; requires radio specific adapter cups & BC157 AC adapter	$305.00
BC121N AD106 220V KIT	6 unit 220V gang charger kit BC121N + BC157S 09 + AD106 x 6	$593.00
BC121N AD106 KIT	6 unit 117V gang charger kit BC121N + BC157S 07 + AD106 x 6	$593.00
BC145SA 31	110V AC adapter for rapid chargers	$25.00
BC145SE 32	220V AC adapter for rapid chargers	$25.00
BC147SA 14	110-240V AC adapter for trickle chargers with a US plug	$15.00
BC147SE 15	230V AC adapter for trickle chargers with a European plug	$16.00
BC157S	110V power supply for 6 bank gang chargers	$120.00
BC157S 220V	220V power supply for the 6 bank gang chargers	$126.00
BC160	Rapid charger with a US plug for radios with the BP230/231/232 batteries	$67.00
BC160E	Rapid charger with European plug for radios with the BP230/231/232 batteries	$67.00
BC171 01	110V drop-in trickle charger for radios with the BP230/231/232 batteries	$47.00
BC171 02	220V drop-in trickle charger for radios with the BP230/231/232 batteries	$45.00
BC197 22	110V six unit charger for radios with the BP232N/H Li-Ion battery (includes AC adapter and cups installed)	$510.00
BC197 23	220V 6 unit charger for radios with the BP232N/H Li-Ion battery (includes AC adapter and cups installed)	$510.00
Manuals		
94416677		$40.00
94416679	Service manual CD for F4230D	$40.00
97716676	Service manual hardcopy F3230D	$40.00
97716678	Service manual hardcopy F4230D	$40.00
98816675	Owner's manual F3230D/4230D	$12.00
Microphones		
HM158LA	Compact speaker microphone with revolving clip and earphone jack (right angle 2-pin screw down connector, stereo mic/mono speaker)	$47.00
HM159LA	Large speaker microphone with earphone jack and metal alligator clip (right angle 2-pin screw down connector, stereo mic/mono speaker)	$77.00
HM-HD7I7WP	Large waterproof speaker microphone with 3.5mm accessory jack (right angle 2-pin screw down connector)	$110.00
Programming Software & Cables		
CSF3021/F5021/F5011	F3021/5021/5011 series programming software	$72.00
CSF3210D	F3210D/4210D, CSF3230D/4230D & F5220D/6220D programming software	$72.00
OPC478	PC to handheld programming cable with RS-232S connector for radios with 2-pin connectors	$60.00

F3230D – F4230D Series

VHF and UHF IDAS Digital Portables

Accessories

Model	Description	MSRP
OPC478UC	PC to handheld programming cable with USB connector for radios with 2-pin connectors	$70.00
PROGLM6789	Icom to program your radio or IAS product	$70.00
Wire Kits		
HM153LA	Covert durable microphone with earphone combination (right angle 2-pin screw down connector)	$125.00
HM166LA	Earphone microphone with 2-pin right angle connector	$53.00

F50/F60 – F50V/F60V Series

Submersible Portables

SPECS

Frequencies:	136-174, 400-470, 450-512MHz
Output Power:	4W (UHF); 5W (VHF)
Channels:	128 With 8 memory banks
Channel Spacing:	12.5kHz
LCD Display:	8 Character
Programmable Keys:	7
Mil Spec:	810 C, D, E
Scan:	Normal & Priority
Weight:	9.9oz (with BP-227) (VHF) 10.0oz (with BP-227) (UHF)
Waterproof Rating:	IPX7 submersible (non V versions) & IP67 submersible (V versions)
Intrinsically Safe:	Yes on specific versions

FEATURES

F50V/F60V Features:	700mW AF power w/ BTL amplifier Lone worker function Low battery beep 17 scanning list memories Surveillance function
Voice/Vibrate Features:	Vibration alert function 8 Minute voice recorder Paging function (special firmware required)

SIGNALING

CTCSS / DTCS Encode/Decode
Built-In 2-Tone, 5-Tone

- Up to 10 2-tone codes can be decoded on a channel
- Up to 8 5-tone codes can be decoded on a channel
- Programmable items for codes: Beep sound, Answer back, Scan, Bell icon, Radio stun/kill

MDC1200

- PTT ID, Radio check, Caller ID
- Call alert, Selcall
- Emergency, emergency mic monitoring
- Stun/revive, Status/message
- 500 aliases

COMES WITH

Antenna (FA-S59V, FA-S27U or FA-S56U)
Battery (BP-227 or BP-227FM)
Belt Clip (MB-98)
Owner's manual
Warranty: 2 years

ENCRYPTION

Inversion scrambler built-in on all version
Rolling code: Built-in on F50 31 and IS versions

MDC 1200 Compatible · FM APPROVED · IPX7 · Meets MIL-STD 810 · OTTO ACCESSORIES AVAILABLE · IP57 SUBMERSIBLE & DUST PROTECTED

F50/F60 – F50V/F60V Series

Submersible Portables

Configurations

Model	Description	MSRP
F50 81	136-174MHz intrinsically safe radio with UT-110 voice scrambler installed	$667.00
F50V 01	136-174MHz waterproof radio	$513.00
F50V 11	136-174MHz waterproof radio with voice and vibrate features	$620.00
F60V 01	400-470MHz waterproof radio	$513.00
F60V 16	450-512MHz waterproof radio	$513.00
F60V 11	400-470MHz waterproof radio with voice and vibrate features	$554.00
F60V 18	450-512MHz waterproof radio with voice and vibrate features	$554.00

Accessories

Model	Description	MSRP
EXTWARR211	1 year extended warranty for a total 3 years	$25.00
EXTWARR212	2 year extended warranty for a total 4 years	$44.00
EXTWARR213	3 year extended warranty for a total 5 years	$62.00
Antennas		
AD92SMA	Antenna connector adapter to connect a BNC-type antenna	$20.00
CEN EXD 400 SMI	400-420MHz stubby antenna for the F60/V portable radios	$14.50
CEN EXD 450 SMI	450-470MHz stubby antenna for F60/V portable radios	$20.00
CEN EXD 470 SMI	470-512MHz stubby antenna for F60/V portable radios	$14.50
CEN EXS 150 SMI	150-160MHz stubby antenna for F50/V & M88 handheld radios	$16.00
CEN EXS 160 SMI	160-174MHz stubby antenna for F50/V & M88 handheld radios	$14.50
FAS24V	136-150MHz antenna for the F50 & M88 handhelds (Blue ring)	$12.50
FAS27U	400-470MHz antenna for the F60/V (green ring)	$13.00
FAS56U	450-520MHz antenna for F60/V (red ring)	$13.00
FAS57US	450-490MHz stubby antenna for F60/V portable radios (red ring)	$16.00
FAS59V	150-174MHz standard antenna for the F50 & M88 (red ring)	$13.00
FAS62VS	150-162MHz stubby antenna for F50/V & M88 (Red ring)	$16.00
FAS63VS	160-174MHz stubby antenna for F50/V & M88 (green ring)	$16.00
FAS74U	490-520MHz antenna for F60/V (blue ring)	$12.50
Batteries		
BP226	Battery case holds 5 AA alkaline batteries for the F50/F60 & M88	$50.00
BP227	Li-ion 7.2V 1950mAh (typical capacity), 1850mAh (minimum value); waterproof	$110.00
BP227FM	Intrinsically safe li-ion 7.2V 1950mAh (typical capacity), 1850mAh (minimum value); waterproof	$126.00
Belt Clips		
AW F50 STUD/SWIVEL KIT	Metal stud that screws into the battery and a metal swivel clip that slides onto the stud	$21.00
MB86	Swivel belt clip that screws into back of radio	$11.00
MB96F	Leather belt hanger. Use with the MB103/Y, MB94 or MB98.	$35.00
MB96N	Swivel belt hanger. Use with the MB103/Y, MB94 or MB98.	$37.00
MB98	Standard belt clip for the F50/60 & M88	$13.00
Cables		
OPC515L	DC power cable for single unit rapid chargers	$26.00
OPC656	DC power cable for BC121N or BC197 gang chargers	$12.00

F50/F60 – F50V/F60V Series

Submersible Portables

Accessories

Model	Description	MSRP
Carrying Cases		
AW F50 AREA 51	Water repellant case with a swivel belt clip for the F50/60 & M88	$35.00
LCF50 CLIP	Leather carrying case with a metal clip and cutout for the display	$45.00
LCF50 LOOP	Leather carrying case with a loop and cutout for the display	$38.00
LCF50 SWIVEL	Leather carrying case with a loops swivel and cutout for the display	$50.00
NCM88	Nylon carrying case with a clip for the F50/60 & M88 radios	$26.00
Chargers		
AD100	Adapter cup to install in the BC119N or BC121N for the F50/60 & M88 radios	$27.00
BC119N 01	110V rapid charger - requires radio specific adapter cup(not CEC compatible for Amateur/Marine radios)	$75.00
BC119N 02	220V rapid charger - requires radio specific adapter cup	$76.00
BC119N 51	110V rapid charger with AD100 installed F50/F60/M88	$99.00
BC121N	6 unit multi-charger; requires radio specific adapter cups & BC157 AC adapter	$305.00
BC121N F50	6-Unit Charger Kit BC121N + BC157S 07 + AD100 x 6	$587.00
BC121N F50 220V	6-Unit Charger Kit BC121N + BC157S 09 + AD100 x 6	$593.00
BC145SA 31	110V AC adapter for rapid chargers	$25.00
BC145SE 32	220V AC adapter for rapid chargers	$25.00
BC147SA 14	110-240V AC adapter for trickle chargers with a US plug	$15.00
BC147SE 15	230V AC adapter for trickle chargers with a European plug	$16.00
BC152N 11	F50/F60/M88 desktop trickle charger (requires BC-147)	$42.00
BC157S	110V power supply for 6 bank gang chargers	$120.00
BC157S 220V	220V power supply for the 6 bank gang chargers	$126.00
BC190 01	Sensing rapid charger for F50/60 radios	$80.00
BC190 02	220V sensing rapid charger for F50/60 radios with Euro plug	$85.00
CP17L	12V cigarette lighter cable for use with BC-119N/BC-160	$30.00
CP23L	12V cigarette lighter cable for use with BC-119N/160/191/193/213	$35.00
MB130	Vehicle charger bracket designed to hold a rapid charger allowing battery to charge while in a vehicle. Requires charger & CP17L. Will not work with the BC119N.	$83.00
Headsets		
HS94	Earpiece headset; use with VS1/OPC2004/OPC2006/OPC1392	$25.00
HS95	Headset with boom mic; use with VS1/OPC2004/OPC2006/OPC1392	$215.00
HS97	Earphone with throat mic headset; use with VS1/OPC2004/OPC2006/OPC1392	$42.00
OTTO V110519	Barrel PTT - connects to headsets with pigtail	$120.00
OTTO V410469-S	Over-the-head style, noise attenuating headset, IS approved	$445.00
OTTO V410470-S	Behind-the-head, noise attenuating headset, IS approved	$520.00
OTTO V410514	Lightweight single speaker w/in-line ptt, padded headband (9-pin connector)	$155.00
OTTO V4NR2CM1	Ranger single ear behind-the-head headset with 9-pin connector	$455.00
VS1SC	VOX/PTT case with 9-pin connector. Must use with HS94/HS95/HS97.	$68.00
Manuals		
94414804	F50/F60 CD service manual	$40.00
94415358	F60V CD service manual	$40.00
94415376	F50V CD service manual	$40.00
97714806	F50 service manual - hardcopy	$40.00

F50/F60 – F50V/F60V Series

Submersible Portables

Accessories

Model	Description	MSRP
97714811	F60 service manual - hardcopy	$40.00
97715317	F50V service manual - hardcopy	$40.00
97715356	F60V service manual - hardcopy	$40.00
98814809	F50/60 owner's manual	$12.00
98815318	F50V/60V owner's manual	$12.00
Microphones		
HM131SC	Speaker/microphone with earphone jack and clip (9-pin)	$79.00
HM138	Waterproof 9-pin marine style speaker mic (IS approved for F50/F60/M88/F70/F80)	$130.00
HM169	Waterproof speaker mic (9-pin)	$105.00
IMPACT HD3-I5	Heavy duty use speaker mic with 3.5mm accessory jack (9-pin)	$76.00
KLEIN SCORPION	Listen Only earloop/earbud that plugs into speaker microphone	$17.00
OTTO V110282	Speaker mic earpiece(2.5mm straight plug)	$50.00
OTTO V110432	Speaker mic earpiece (2.5mm right angle plug)	$60.00
OTTO V110433	Speaker mic earpiece (3.5mm right angle plug)	$60.00
OTTO V210272	Genesis waterproof mic with removable front grill cover. Mic output -44dBV. Nine pin connector	$180.00
OTTO V210273-S	H2O Evolution style IS rated with hi/lo volume switch (IP68)	$166.00
OTTO V210274-S	Evolution style IS rated with hi/lo volume switch and 2.5mm earphone jack	$164.00
OTTO V210314	Evolution heavy duty mic with hi/lo volume switch, 2.5mm earphone jack and 9-pin connector	$140.00
OTTO V210315	Evolution heavy duty mic with hi/lo volume switch and 9-pin connector immersion rated IP68	$140.00
OTTO V2L2CM11	Profile speaker mic with 9-pin connector	$115.00
Programming Software & Cables		
CSF50	F50/F60 Program Software	$75.00
CSF50V	F50V Program Software	$72.00
OPC966	PC to radio programming cloning cable with RC-232S connector for radios with 9-pin connector	$168.00
OPC966U	PC to radio programming cloning cable with USB connector for radios with 9-pin connector	$168.00
PROGLM1234	Icom to program your radio or IAS product	$42.00
RedHawk		
IAS BC-RHADPTR	100-240V charger adapter for use with the IAS OPC-RHUSB	$70.00
IAS BC-RHCHG1	100-240V single unit charger for RedHawk mic	$105.00
IAS BC-RHCHG12	100-240V 12 unit charger for the RedHawk mics	$1,000.00
IAS BP-RHBATT1	3.8V 1200mAh battery for RedHawk mic	$45.00
IAS CP-RHLP	12-24V cigarette lighter plug requiring 2 USB cables	$60.00
IAS CS-RHSW	Utility software to upload stored tracks, optional PC programming, online demos. One per customer needed.	$120.00
IAS OPC-RHI9	RedHawk 9-pin cable connects GPS mic to radio (works in analog only)	$99.00
IAS OPC-RHUSB	USB cable to connect mic with PC or charger adapter. One comes with each microphone.	$30.00
IAS REDHAWK	Speaker microhpone with GPS receiver. LCD display shows basic orientation of all members within a group. Battery & USB cable included. Cable that hooks from microphone to radio is required.	$584.00
Wire Kits		
KLEIN DOUBLE AGENT-S8	2-Wire Kit D-Ring Earloop for F50/F60	$70.00
OTTO V110822	2-Wire palm mic kit (earphone cable and mic/ptt cable) with 9-pin connector	$125.00

F50/F60 – F50V/F60V Series

Submersible Portables

F3161 – F4161 / F3161D – F4161D Series

Analog, LTR®, Digital or PassPort Portables

SPECS

Frequencies:	136-174, 400-470, 450-512MHz
Output Power:	5W
Channels:	512 / 128 zones
Channel Spacing:	12.5 kHz; 6.25kHz (D versions)
PLL Chnl Spacing:	2.5 / 3.125kHz
LCD Display:	Full dot-matrix
Programmable Keys:	8
Mil Spec:	810 C, D, E
Scan:	Normal & priority
Weight:	12oz (with BP-232H)
Waterproof Rating:	IP55 dust and spraying water protection
Intrinsically Safe:	Yes on specific versions

"D" Signifies IDAS Ready

FEATURES

General Features

- Basic LTR® / Conventional / IDAS mixed mode
- Lone worker function
- 2 step reduced power setting
- Busy, repeater lockout function
- Escalating alarm
- Surveillance function (temp. turns LEDs off)

Digital Features

- IDAS Trunking - single or multisite
- MultiTrunk - IDAS multi-site trunking
- Voting mode scanning
- NXDN® Digital Air Interface
- AMBE+2™ VOCODER
- Short & long data messages
- 64 Radio Access Numbers (RAN)
- Individual & group selective call
- Strongest site search
- Firmware upgrade over IP
- Configuration over IP

COMES WITH

Antenna (FA-SC55V or FA-SC57U)
Battery (BP-232H)
Belt clip (MB-94)
Owner's manual
Warranty: 3 years

SIGNALING

MDC1200 (analog & LTR)
CTCSS/DCS encode & decode
DTMF decode
2/5 tone encode/decode
Enhanced MDC (optional)
PassPort® (optional)

ENCRYPTION

Inversion scrambler built-in on all versions
Simple Inversion: UT-109R 32 Codes
Rolling Code: UT-110R 1020 Codes

MULTITRUNK FM APPROVED IP55 DUST & SPRAYING WATER PROTECTION Meets MIL-STD 810 OTTO ACCESSORIES AVAILABLE MDC 1200 Compatible iDAS ICOM DIGITAL ADVANCED SYSTEM

F3161 – F4161 / F3161D – F4161D Series

Analog, LTR®, Digital or PassPort Portables

Configurations

Model	Description	MSRP
F3161S 56	136-174MHz analog only radio, no DTMF keypad	$578.00
F3161T 46	136-174MHz analog only radio, full DTMF keypad	$602.00
F3161S 55	136-174MHz intrinsically safe analog radio no DTMF keypad	$639.00
F3161T 45	136-174MHz intrinsically safe analog radio full DTMF keypad	$664.00
F3161DS 71	136-174MHz IDAS radio, no DTMF keypad.	$799.00
F3161DS 75	136-174MHz intrinsically safe IDAS radio no DTMF keypad	$875.00
F3161DT 65	136-174MHz intrinsically safe IDAS radio full DTMF keypad	$895.00
F4161S 51	400-470MHz analog only radio, no DTMF keypad	$578.00
F4161T 41	400-470MHz analog only radio, full DTMF keypad	$602.00
F4161S 56	450-512MHz analog only radio, no DTMF keypad	$578.00
F4161T 46	450-512MHz analog only radio, full DTMF keypad	$602.00
F4161S 55	400-470MHz intrinsically safe analog radio, no DTMF keypad	$639.00
F4161T 45	400-470MHz intrinsically safe analog radio, full DTMF keypad	$664.00
F4161S 60	450-512MHz intrinsically safe analog radio, no DTMF keypad	$639.00
F4161T 50	450-512MHz intrinsically safe analog radio, full DTMF keypad	$664.00
F4161DS 71	400-470MHz IDAS radio, no DTMF keypad	$799.00
F4161DT 66	450-512MHz IDAS radio, full DTMF keypad	$845.00
F4161DS 75	400-470MHz intrinsically safe IDAS radio no DTMF keypad	$875.00
F4161DT 65	400-470MHz intrinsically safe IDAS radio full DTMF keypad	$895.00
F4161DS 80	450-512MHz intrinsically safe IDAS radio, no DTMF keypad	$875.00
F4161DT 70	450-512MHz intrinsically safe IDAS radio, full DTMF keypad	$895.00

Accessories

Model	Description	MSRP
EXTWARR611	1 year extended warranty	$40.00
EXTWARR612	2 year extended warranty	$70.00
EXTWARR613	3 year extended warranty	$110.00
RR FIRMWARE UPGRADE	Add 3.1 RR firmware to your IDAS radio	$0.00
Antennas		
CEN EXD 400 MXI	400-430MHz stubby antenna for land mobile portable radios	$14.50
FASC25U	400-430MHz antenna for LM portables	$13.00
FASC25V	136-150MHz antenna for LM portables	$13.00
FASC55V	146-174MHz standard antenna for LM portables	$13.00
FASC56VS	150-160MHz stubby antenna for LM portables	$14.50
FASC57U	440-470MHz standard antenna for LM radios (red ring)	$13.00
FASC57VS	160-174MHz stubby antenna for LM portables	$14.50
FASC61UC	380-520MHz cut antenna for the specific frequency desired	$16.00
FASC61VC	136-174MHz cut antenna for the specific frequency desired	$16.00
FASC62V	150-160MHz high gain antenna for LM portables (10")	$55.00
FASC63V	155-165MHz high gain antenna for LM portables (9.5")	$55.00
FASC72U	470-512MHz antenna for LM portables	$13.00
FASC73US	450-470MHz stubby antenna for LM portable radios	$14.50
LAIRD EXH 160 MXI	155-160MHz antenna	$26.00
LARSEN SPHL10160IC	155-160MHz antenna	$26.00

F3161 – F4161 / F3161D – F4161D Series

Analog, LTR®, Digital or PassPort Portables

Accessories

Model	Description	MSRP
Batteries		
BP232H	Li-ion 7.4V 2300mAh (typical capacity), 2250mAh (minimum value)	$75.00
BP232N FM	Intrinsically safe li-ion 7.4V 2000mAh (typical capacity), 1900mAh (minimum value) F3161/4161 IS series	$145.00
BP240	Battery case that holds 6 AAA alkaline batteries (1W output power)	$35.00
Belt Clips		
AW STUD	Metal stud that slides on where the belt clip goes. Requires AW Swivel	$12.00
AW STUD/SWIVEL KIT	Metal stud that slides on like a belt clip and it's attached to a strong metal swivel belt clip	$21.00
AW SWIVEL	Swivel clip used with the AW Stud/Swivel Kit.	$13.00
MB93	Swivel belt clip	$11.00
MB94	Alligator belt clip	$10.50
MB94R	Alligator belt clip with long clip that angles the antenna/top of radio off the body	$18.00
MB96F	Leather belt hanger. Use with the MB103/Y, MB94 or MB98.	$35.00
MB96N	Swivel belt hanger. Use with the MB103/Y, MB94 or MB98.	$37.00
Cables		
OPC515L	DC power cable for single unit rapid chargers	$26.00
OPC656	DC power cable for BC121N or BC197 gang chargers	$12.00
Carrying Cases		
LCF3061S CLIP	Leather carrying case with a clip and cutout for display only F3161/4161 series	$45.00
LCF3061S LOOP	Leather carrying case with a loop and cutout for the display	$38.00
LCF3061S SWIVEL	Leather case for the F3161/4161 with a swivel clip	$50.00
LCF3061T CLIP	Leather case for the F3161/4161 with a clip	$45.00
LCF3061T SWIVEL	Leather case for the F3161/4161 with a full keypad cutout with a swivel belt clip	$50.00
NCF3061S CLIP	Nylon case with a clip for the F3161S/4161S radios without a DTMF cutout	$27.00
NCF3061S LOOP	Nylon case with a loop for the F3161S/4161S radios without a DTMF cutout	$25.00
NCF3061T CLIP	Nylon carrying case with a clip for the F3161T/4161T radios with a full keypad	$27.00
NCF3061T LOOP	Nylon carrying case with a loop for the F3161T/4161T radios with a full keypad	$25.00
Chargers		
AD106	Adapter cup to install in the BC119N or BC121N for the radios with the BP232N/H battery	$28.00
AD122	Adapter cup that fits into the BC197 22/23 for the BP232N/H batteries	$23.00
BC119N 01	110V rapid charger - requires radio specific adapter cup(not CEC compatible for Amateur/Marine radios)	$75.00
BC119N 02	220V rapid charger - requires radio specific adapter cup	$76.00
BC121N	6 unit multi-charger; requires radio specific adapter cups & BC157 AC adapter	$305.00
BC121N AD106 220V KIT	6 unit 220V gang charger kit BC121N + BC157S 09 + AD106 x 6	$593.00
BC121N AD106 KIT	6 unit 117V gang charger kit BC121N + BC157S 07 + AD106 x 6	$593.00
BC145SA 31	110V AC adapter for rapid chargers	$25.00
BC145SE 32	220V AC adapter for rapid chargers	$25.00
BC147SA 14	110-240V AC adapter for trickle chargers with a US plug	$15.00
BC147SE 15	230V AC adapter for trickle chargers with a European plug	$16.00
BC157S	110V power supply for 6 bank gang chargers	$120.00
BC157S 220V	220V power supply for the 6 bank gang chargers	$126.00
BC160	Rapid charger with a US plug for radios with the BP230/231/232 batteries	$67.00

F3161 – F4161 / F3161D – F4161D Series

Analog, LTR®, Digital or PassPort Portables

Accessories

Model	Description	MSRP
BC160E	Rapid charger with European plug for radios with the BP230/231/232 batteries	$67.00
BC171 01	110V drop-in trickle charger for radios with the BP230/231/232 batteries	$47.00
BC171 02	220V drop-in trickle charger for radios with the BP230/231/232 batteries	$45.00
BC197 22	110V six unit charger for radios with the BP232N/H Li-Ion battery (includes AC adapter and cups installed)	$510.00
BC197 23	220V 6 unit charger for radios with the BP232N/H Li-Ion battery (includes AC adapter and cups installed)	$510.00
CP17L	12V cigarette lighter cable for use with BC-119N/BC-160	$30.00
CP23L	12V cigarette lighter cable for use with BC-119N/160/191/193/213	$35.00
IA-BC171	Heavy duty vehicular charger for the F3161/F4161 series	$375.00
IA-TC100A	Travel charger piece the BC-160/BC-171 fits into. Req CP1/CP17L or OPC515L	$45.00
MB130	Vehicle charger bracket designed to hold a rapid charger allowing battery to charge while in a vehicle. Requires charger & CP17L. Will not work with the BC119N.	$83.00
SS BC61	Mobile rapid charger with cigarette adapter for the F3161 & F3261 series	$215.00
Headsets		
HS94	Earpiece headset; use with VS1/OPC2004/OPC2006/OPC1392	$25.00
HS95	Headset with boom mic; use with VS1/OPC2004/OPC2006/OPC1392	$215.00
HS97	Earphone with throat mic headset; use with VS1/OPC2004/OPC2006/OPC1392	$42.00
OTTO V110519	Barrel PTT - connects to headsets with pigtail	$120.00
OTTO V410514	Lightweight single speaker w/in-line ptt, padded headband (9-pin connector)	$155.00
VS1SC	VOX/PTT case with 9-pin connector. Must use with HS94/HS95/HS97.	$68.00
Internal Modules		
INSTALLLM6789	Icom installation charge	$70.00
UT109R 21	Non-rolling voice scrambler. Up to 32 codes available. Not compatible with radios using the UT-110.	$105.00
UT110R 21	Rolling voice scrambler. Up to 1020 (255 codes x 4 groups) codes available. Works only in analog mode.	$173.00
UT124R 02	Man down unit	$90.00
UT126H 03	6.25kHz digital module for F3161/4161 or F5061/6061 radios	$250.00
Manuals		
94415081	F3161/4161/D & F3061/4061 CD service manual	$40.00
97715082	F3161/D service manual-hardcopy	$40.00
97715154U	F4161/D service manual-hardcopy	$40.00
98815083	F3161/4161/D & F3061/4061 owner's manual	$12.00
Microphones		
HM131SC	Speaker/microphone with earphone jack and clip (9-pin)	$79.00
HM159SC LG	Large speaker microphone with earphone jack and metal alligator clip (9-pin, stereo mic/mono speaker)	$92.00
HM169	Waterproof speaker mic (9-pin)	$105.00
HM169 IS	Intrinscially safe waterproof speaker mic (9-pin)	$145.00
HM170GP	9-pin waterproof GPS mic for EMDC or digital versions of the F3161/4161 series	$365.00
IMPACT HD3-I5	Heavy duty use speaker mic with 3.5mm accessory jack (9-pin)	$76.00
OTTO V110282	Speaker mic earpiece(2.5mm straight plug)	$50.00
OTTO V110432	Speaker mic earpiece (2.5mm right angle plug)	$60.00
OTTO V110433	Speaker mic earpiece (3.5mm right angle plug)	$60.00

F3161 – F4161 / F3161D – F4161D Series

Analog, LTR®, Digital or PassPort Portables

Accessories

Model	Description	MSRP
OTTO V210314	Evolution heavy duty mic with hi/lo volume switch, 2.5mm earphone jack and 9-pin connector	$140.00
OTTO V210315	Evolution heavy duty mic with hi/lo volume switch and 9-pin connector immersion rated IP68	$140.00
OTTO V2L2CM11	Profile speaker mic with 9-pin connector	$115.00
SP13	Earphone for speaker mics/handhelds	$5.00
Miscellaneous		
AD52	Earphone adapter for the F3161/F4161/F30G/M88	$25.00
Programming Software & Cables		
CSF3161/F5061	Software to program the F3161/4161 & F5061/6061 radios	$72.00
OPC966	PC to radio programming cloning cable with RC-232S connector for radios with 9-pin connector	$168.00
OPC966U	PC to radio programming cloning cable with USB connector for radios with 9-pin connector	$168.00
PROGLM6789	Icom to program your radio or IAS product	$70.00
RedHawk		
IAS BC-RHADPTR	100-240V charger adapter for use with the IAS OPC-RHUSB	$70.00
IAS BC-RHCHG1	100-240V single unit charger for RedHawk mic	$105.00
IAS BC-RHCHG12	100-240V 12 unit charger for the RedHawk mics	$1,000.00
IAS BP-RHBATT1	3.8V 1200mAh battery for RedHawk mic	$45.00
IAS CP-RHLP	12-24V cigarette lighter plug requiring 2 USB cables	$60.00
IAS CS-RHSW	Utility software to upload stored tracks, optional PC programming, online demos. One per customer needed.	$120.00
IAS OPC-RHI9	RedHawk 9-pin cable connects GPS mic to radio (works in analog only)	$99.00
IAS OPC-RHUSB	USB cable to connect mic with PC or charger adapter. One comes with each microphone.	$30.00
IAS REDHAWK	Speaker microhpone with GPS receiver. LCD display shows basic orientation of all members within a group. Battery & USB cable included. Cable that hooks from microphone to radio is required.	$584.00
Wire Kits		
OTTO V110822	2-Wire palm mic kit (earphone cable and mic/ptt cable) with 9-pin connector	$125.00

F3261D – F4261D Series

Waterproof Analog, LTR®, Digital Portables

SPECS

Frequencies:	136-174, 400-470, 450-512MHz
Output Power:	5W
Channels:	512 / 128 zones
Channel Spacing:	12.5 & 6.25kHz
Mil Spec:	810 C, D, E
Scan:	Normal & priority
Weight:	14.1oz (with BP-232WP)
Waterproof Rating:	IP67 submersible & dust protection
Versions:	Waterproof only Waterproof with GPS

FEATURES

General Features

- Basic LTR® / Conventional / IDAS mixed mode
- Lone worker function
- 2 step reduced power setting
- Busy, repeater lockout function
- Escalating alarm
- Surveillance function temporarily turns off the LED backlight and beep sound
- Detects both analog & IDAS conventional signals and automatically selects the transmission mode to reply to received call
- Man down feature built-in (waterproof only version)

Digital Features

- IDAS Trunking - single or multisite
- MultiTrunk - IDAS multi-site trunking
- Voting mode scanning
- NXDN® Digital Air Interface
- AMBE+2™ VOCODER
- Short & long data messages
- 64 Radio Access Numbers (RAN)
- Individual & group selective call
- Strongest site search

COMES WITH

Antenna (FA-SC55V or FA-SC57U)
Battery (BP-232WP)
Belt clip (MB-94R)
Owner's manual
Warranty: 3 years

SIGNALING

MDC1200 (analog & LTR)
CTCSS/DCS encode & decode
DTMF decode
2/5 tone encode & decode

ENCRYPTION

Inversion scrambler built-in. Digital voice scrambler provides 15-bit key (about 32K codes)

MDC 1200 Compatible | MULTITRUNK | IP67 | Meets MIL-STD 810 | OTTO ACCESSORIES AVAILABLE | iDAS

F3261D – F4261D Series

Waterproof Analog, LTR®, Digital Portables

Configurations

Model	Description	MSRP
F3261DS 51	136-174MHz waterproof IDAS radio, no DTMF keypad	$800.00
F3261DT 01	136-174MHz waterproof IDAS radio, full DTMF keypad	$845.00
F3261DS 55	136-174MHz waterproof IDAS radio with GPS, no DTMF keypad	$880.00
F3261DT 40	136-174MHz waterproof IDAS radio with GPS, full DTMF keypad	$925.00
F3261DT 31 RR	Railroad specific version: 136-174MHz 512 channel, IDAS waterproof portable radio with a DTMF keypad. Special railroad firmware installed.	$866.00
F3261DT 32 RR	Railroad specific version: 136-174MHz 512 channel, IDAS waterproof portable radio with a DTMF keypad and GPS. Special railroad firmware installed.	$951.00
F4261DS 61	400-470MHz waterproof IDAS radio, no DTMF keypad	$800.00
F4261DT 01	400-470MHz waterproof IDAS radio, full DTMF keypad	$845.00
F4261DS 36	450-512MHz waterproof IDAS radio, no DTMF keypad	$800.00
F4261DT 31	450-512MHz waterproof IDAS radio, full DTMF keypad	$845.00
F4261DS 15	400-470MHz waterproof IDAS radio with GPS, no DTMF keypad	$880.00
F4261DT 55	400-470MHz waterproof IDAS radio with GPS, full DTMF keypad	$925.00
F4261DS 40	450-512MHz waterproof IDAS radio with GPS, no DTMF keypad	$880.00
F4261DT 35	450-512MHz waterproof IDAS radio with GPS, full DTMF keypad	$925.00

Accessories

Model	Description	MSRP
EXTWARR611	1 year extended warranty	$40.00
EXTWARR612	2 year extended warranty	$70.00
EXTWARR613	3 year extended warranty	$110.00
Antennas		
FASC25U	400-430MHz antenna for LM portables	$13.00
FASC25V	136-150MHz antenna for LM portables	$13.00
FASC55V	146-174MHz standard antenna for LM portables	$13.00
FASC56VS	150-160MHz stubby antenna for LM portables	$14.50
FASC57U	440-470MHz standard antenna for LM radios (red ring)	$13.00
FASC57VS	160-174MHz stubby antenna for LM portables	$14.50
FASC61UC	380-520MHz cut antenna for the specific frequency desired	$16.00
FASC61VC	136-174MHz cut antenna for the specific frequency desired	$16.00
FASC62V	150-160MHz high gain antenna for LM portables (10")	$55.00
FASC63V	155-165MHz high gain antenna for LM portables (9.5")	$55.00
FASC72U	470-512MHz antenna for LM portables	$13.00
FASC73US	450-470MHz stubby antenna for LM portable radios	$14.50
LAIRD EXH 160 MXI	155-160MHz antenna	$26.00
LARSEN SPHL10160IC	155-160MHz antenna	$26.00
Batteries		
BP232WP	Li-ion 7.4V 2300mAh (typical capacity), 2250mAh (minimum value) IP67 waterproof battery	$75.00
BP240	Battery case that holds 6 AAA alkaline batteries (1W output power)	$35.00
Belt Clips		
MB93	Swivel belt clip	$11.00
MB94	Alligator belt clip	$10.50
MB94R	Alligator belt clip with long clip that angles the antenna/top of radio off the body	$18.00

F3261D – F4261D Series

Waterproof Analog, LTR®, Digital Portables

Accessories

Model	Description	MSRP
MB96F	Leather belt hanger. Use with the MB103/Y, MB94 or MB98.	$35.00
MB96N	Swivel belt hanger. Use with the MB103/Y, MB94 or MB98.	$37.00
Cables		
OPC515L	DC power cable for single unit rapid chargers	$26.00
OPC656	DC power cable for BC121N or BC197 gang chargers	$12.00
Carrying Cases		
LCF3261S SWIVEL	Leather carrying case with a swivel clip and cutout for the display for F3261	$50.00
LCF3261T SWIVEL	Leather carrying case with a swivel clip and cutout for the DTMF keypad for F3261 series	$50.00
NCF3261S CLIP	Nylon carrying case with a clip and cutout for the display for F3261 series	$27.00
NCF3261T CLIP	Nylon carrying case with a clip and cutout for the DTMF keypad for F3261 series	$27.00
Chargers		
AD106	Adapter cup to install in the BC119N or BC121N for the radios with the BP232N/H battery	$28.00
AD122	Adapter cup that fits into the BC197 22/23 for the BP232N/H batteries	$23.00
AD99N	Spacer for the AD94 adapter cup	$6.40
BC121N	6 unit multi-charger; requires radio specific adapter cups & BC157 AC adapter	$305.00
BC121N AD106 220V KIT	6 unit 220V gang charger kit BC121N + BC157S 09 + AD106 x 6	$593.00
BC121N AD106 KIT	6 unit 117V gang charger kit BC121N + BC157S 07 + AD106 x 6	$593.00
BC123SA 51	AC adapter for BC191/BC193/BC160 rapid chargers with US plug	$25.00
BC123SE	220V AC adapter for BC191/BC193/BC160 rapid chargers	$27.00
BC157S	110V power supply for 6 bank gang chargers	$120.00
BC157S 220V	220V power supply for the 6 bank gang chargers	$126.00
BC160	Rapid charger with a US plug for radios with the BP230/231/232 batteries	$67.00
BC160E	Rapid charger with European plug for radios with the BP230/231/232 batteries	$67.00
BC197 22	110V six unit charger for radios with the BP232N/H Li-Ion battery (includes AC adapter and cups installed)	$510.00
BC197 23	220V 6 unit charger for radios with the BP232N/H Li-Ion battery (includes AC adapter and cups installed)	$510.00
CP17L	12V cigarette lighter cable for use with BC-119N/BC-160	$30.00
CP23L	12V cigarette lighter cable for use with BC-119N/160/191/193/213	$35.00
IA-TC100A	Travel charger piece the BC-160/BC-171 fits into. Req CP1/CP17L or OPC515L	$45.00
MB130	Vehicle charger bracket designed to hold a rapid charger allowing battery to charge while in a vehicle. Requires charger & CP17L. Will not work with the BC119N.	$83.00
SS BC61	Mobile rapid charger with cigarette adapter for the F3161 & F3261 series	$215.00
Microphones		
HM184H	14-pin loud waterproof speaker mic (no mic jack)	$118.00
HM-HD7I6WP	Large waterproof speaker microphone with 3.5mm accessory jack(14-pin connector)	$120.00
IMPACT HD3-I6	Lightweight heavy duty use speaker mic with 3.5mm accessory jack (14-pin connector)	$98.00
Programming Software & Cables		
CSF3161/F5061	Software to program the F3161/4161 & F5061/6061 radios	$72.00
OPC1862	PC to radio programming cloning cable with USB connector for radios with 14-pin connector	$189.00
OPC1870	Radio to radio cloning cable between two 14-pin connector portable radios	$125.00
OPC1871	Radio to radio cloning cable between 14-pin connector portable & mobile radio	$110.00
PROGLM6789	Icom to program your radio or IAS product	$70.00

F3261D – F4261D Series

Waterproof Analog, LTR®, Digital Portables

F70/F80 – F70D/F80D Series

High End Analog, P25, I.S. and FIPS Portables

SPECS

Frequencies:	136-174, 380-450, 400-470, 450-512MHz
Output Power:	4W (UHF); 5W (VHF)
Channels:	256 with 32 zones
Channel Spacing:	12.5kHz
LCD Display:	Full dot matrix, switchable 1 line 12 character or 2 line 24 character
Programmable Keys:	8
Mil Spec:	810 C, D, E
Scan:	Normal, priority & dual priority
Waterproof Rating:	IPX7 submersible
Weight:	14.1oz (with BP-253) 15.9oz (with BP-254)
Intrinsically Safe:	Yes on specific versions
Versions:	Analog only (upgradeable to P25) P25 ready (D versions) P25 ready with FIPS

FEATURES

Tactical group function
Mixed mode operation
Radio stun/kill function (analog only) and Power on password
Built-in audio compander (analog only)
Unit Down: UT-124
2 Step power saver
Busy, repeater lockout functions
Selective call / individual call using
Unit ID & talkgroup ID

COMES WITH

Antenna (FA-SC55V or FA-SC57U)
Battery
- P25/analog (BP-253)
- FIPS versions (BP-254)
- I.S. radios (BP-254FM)

Belt Clip (MB-94)
Owners manual
Warranty: 2-Year (F70/F80)
3-Year (F70D/80D)

SIGNALING

CTCSS / DTCS encode & decode
2-Tone, 5-Tone

- Up to 10 2-tone codes can be decoded on a channel
- Up to 8 5-tone codes can be decoded on a channel
- Programmable items for codes: Beep sound, Answer back, Scan, Bell icon, Radio stun/kill

DTMF
MDC1200

- PTT I/Caller ID, selective call, radio check, call alert
- Emergency, emergency mic monitoring
- Stun/revive, call log, status/message
- 500 aliases

ENCRYPTION

Analog Only:
Simple Inversion: UT-109 32 Codes
Rolling Code: UT-110 1020 Codes

Digital Only:
AES & DES upgrade options

IPX7 FIPS VALIDATED 140-2 P25 Meets MIL-STD 810 FM APPROVED OTTO ACCESSORIES AVAILABLE MDC 1200 Compatible

F70/F80 – F70D/F80D Series

High End Analog, P25, I.S. and FIPS Portables

Configurations

Model	Description	MSRP
F70S 23	136-174MHz intrinsically safe analog radio, no DTMF keypad (P25 upgradeable)	$913.00
F70T 33	136-174MHz intrinsically safe analog radio, full DTMF keypad (P25 upgradeable)	$963.00
F70DS 01	136-174MHz P25 radio, no DTMF keypad	$1,185.00
F70DT 11	136-174MHz P25 radio, full DTMF keypad	$1,240.00
F70DS 04	136-174MHz P25 radio with FIPS AES installed, no DTMF keypad. Special order only, minimum number required.	$2,280.00
F70DT 14	136-174MHz P25 radio with FIPS AES installed, full DTMF keypad. Special order only, minimum number required.	$2,370.00
F70DS 21	136-174MHz intrinsically safe P25 radio, no DTMF keypad	$1,650.00
F70DT 31	136-174MHz intrinsically safe P25 radio, full DTMF keypad	$1,720.00
F80T 56	450-512MHz intrinsically safe analog radio, full DTMF keypad (P25 upgradeable)	$975.00
F80DS 01	400-470MHz P25 radio, no DTMF keypad	$1,720.00
F80DS 31	380-450MHz P25 radio with FIPS AES installed, no DTMF keypad	$1,100.00
F80T 25	400-470MHz analog radio, full DTMF keypad (P25 upgradeable)	$650.00

Accessories

Model	Description	MSRP
EX2785J02	DES activation upgrade	$551.00
EX2785J03	AES activation upgrade	$656.00
EXTWARR611	1 year extended warranty	$40.00
EXTWARR612	2 year extended warranty	$70.00
EXTWARR613	3 year extended warranty	$110.00
EXTWARR811	1 year extended warranty for a total 4 years	$65.00
EXTWARR812	2 year extended warranty for a total 5 years	$93.00
EXTWARR813	3 year extended warranty for a total 6 years	$130.00
Antennas		
AD98FSC	Antenna connector adapter for "J" to "BNC" conversion	$22.00
CEN EXD 380 MXI	380-420MHz stubby antenna for land mobile portable radios	$14.50
CEN EXD 400 MXI	400-430MHz stubby antenna for land mobile portable radios	$14.50
FASC25U	400-430MHz antenna for LM portables	$13.00
FASC25V	136-150MHz antenna for LM portables	$13.00
FASC55V	146-174MHz standard antenna for LM portables	$13.00
FASC56VS	150-160MHz stubby antenna for LM portables	$14.50
FASC57U	440-470MHz standard antenna for LM radios (red ring)	$13.00
FASC57VS	160-174MHz stubby antenna for LM portables	$14.50
FASC61UC	380-520MHz cut antenna for the specific frequency desired	$16.00
FASC61VC	136-174MHz cut antenna for the specific frequency desired	$16.00
FASC62V	150-160MHz high gain antenna for LM portables (10")	$55.00
FASC63V	155-165MHz high gain antenna for LM portables (9.5")	$55.00
FASC72U	470-512MHz antenna for LM portables	$13.00
FASC73US	450-470MHz stubby antenna for LM portable radios	$14.50
Batteries		
BP237	Battery case that holds 6 AA alkaline batteries	$39.00
BP253	Li-ion 7.2V 1650mAh (typical capacity), 1570mAh (minimum value)	$110.00

F70/F80 – F70D/F80D Series

High End Analog, P25, I.S. and FIPS Portables

Accessories

Model	Description	MSRP
BP254	Li-ion 7.2V 3040mAh (typical capacity), 2900mAh (minimum value) for P25 portables	$155.00
BP254FM	Intrinsically safe li-ion 7.2V 3040mAh (typical capacity), 2900mAh (minimum value)	$183.00
Belt Clips		
AW STUD/SWIVEL KIT	Metal stud that slides on like a belt clip and it's attached to a strong metal swivel belt clip	$21.00
MB93	Swivel belt clip	$11.00
MB94	Alligator belt clip	$10.50
MB94R	Alligator belt clip with long clip that angles the antenna/top of radio off the body	$18.00
MB96F	Leather belt hanger. Use with the MB103/Y, MB94 or MB98.	$35.00
MB96N	Swivel belt hanger. Use with the MB103/Y, MB94 or MB98.	$37.00
Cables		
OPC515L	DC power cable for single unit rapid chargers	$26.00
OPC656	DC power cable for BC121N or BC197 gang chargers	$12.00
Carrying Cases		
AW F70 AREA 51	Water repellant case with a swivel belt clip for the F70/80	$35.00
LCF70 CLIP	Leather case with a metal clip and keypad cutout for the F70/80 series radios. Case is not IS approved with any of our IS radios.	$45.00
LCF70 LOOP	Leather case with a belt loop and keypad cutout for the F70/80 series radios. Case is not IS approved with any of our IS radios.	$38.00
LCF70 SWIVEL	Leather case with a swivel belt loop and keypad cutout for the F70/80 series radios. Case is not IS approved with any of our IS radios.	$50.00
LCF70S LOOP	Leather case with a belt loop for the F70/80 series radios. Case is not IS approved with any of our IS radios.	$38.00
LCF70S SWIVEL	Leather case with a swivel belt loop for the F70/80 series radios. Case is not IS approved with any of our IS radios.	$50.00
NCF70 CLIP	Nylon carrying case with a clip for the F70/80 radios with a full keypad cutout	$27.00
NCF70 LOOP	Nylon carrying case with a loop for the F70/80 radios with a full keypad cutout	$25.00
Chargers		
AD110	Adapter cup to install in the BC119N or BC121N for the BP253 or BP254 batteries	$28.00
BC119N 01	110V rapid charger - requires radio specific adapter cup(not CEC compatible for Amateur/Marine radios)	$75.00
BC119N 02	220V rapid charger - requires radio specific adapter cup	$76.00
BC119N 61	110V rapid charger with AD110 installed F70/80/9011/9021	$95.00
BC121N	6 unit multi-charger; requires radio specific adapter cups & BC157 AC adapter	$305.00
BC121N F70	6-Unit Charger Kit BC121N + BC157 + AD110 x 6	$593.00
BC121N F70 220V	220V 6-Unit Charger Kit BC121N + BC157 + AD110 x 6	$593.00
BC145SA 31	110V AC adapter for rapid chargers	$25.00
BC145SE 32	220V AC adapter for rapid chargers	$25.00
BC157S	110V power supply for 6 bank gang chargers	$120.00
BC157S 220V	220V power supply for the 6 bank gang chargers	$126.00
CP17L	12V cigarette lighter cable for use with BC-119N/BC-160	$30.00
CP23L	12V cigarette lighter cable for use with BC-119N/160/191/193/213	$35.00
Headsets		
HS94	Earpiece headset; use with VS1/OPC2004/OPC2006/OPC1392	$25.00
HS95	Headset with boom mic; use with VS1/OPC2004/OPC2006/OPC1392	$215.00

F70/F80 – F70D/F80D Series

High End Analog, P25, I.S. and FIPS Portables

Accessories

Model	Description	MSRP
HS97	Earphone with throat mic headset; use with VS1/OPC2004/OPC2006/OPC1392	$42.00
OTTO V110519	Barrel PTT - connects to headsets with pigtail	$120.00
OTTO V410469-S	Over-the-head style, noise attenuating headset, IS approved	$445.00
OTTO V410470-S	Behind-the-head, noise attenuating headset, IS approved	$520.00
OTTO V410514	Lightweight single speaker w/in-line ptt, padded headband (9-pin connector)	$155.00
OTTO V4NR2CM1	Ranger single ear behind-the-head headset with 9-pin connector	$455.00
VS1SC	VOX/PTT case with 9-pin connector. Must use with HS94/HS95/HS97.	$68.00
Internal Modules		
INSTALLLM6789	Icom installation charge	$70.00
UT109 02	Non-rolling voice scrambler. Up to 32 codes available. Not compatible with radios using the UT-110.	$105.00
UT110 02	Rolling voice scrambler. Up to 1020 (255 codes x 4 groups) codes available.	$173.00
UT120 01	P25 upgrade board for F70/80 handhelds	$541.00
UT124 01	Man down unit	$90.00
KVL		
KA KVL125	KVL unit powered by 9-volt battery	$3,185.00
OPC-IAKVL9	Interface Cable with 9 Pin Connector for F70D/F80D	$200.00
Manuals		
94415196	F70/F80 CD service manual	$40.00
97714933	F70S/T & F70DS/DT service manual hardcopy	$40.00
98814911	F70DS/DT, F70S/T, F80DS/DT, F80S/T owner's manual	$12.00
Microphones		
HM138	Waterproof 9-pin marine style speaker mic (IS approved for F50/F60/M88/F70/F80)	$130.00
HM169	Waterproof speaker mic (9-pin)	$105.00
IMPACT HD3-I5	Heavy duty use speaker mic with 3.5mm accessory jack (9-pin)	$76.00
KLEIN SCORPION	Listen Only earloop/earbud that plugs into speaker microphone	$17.00
OTTO V110282	Speaker mic earpiece(2.5mm straight plug)	$50.00
OTTO V110432	Speaker mic earpiece (2.5mm right angle plug)	$60.00
OTTO V110433	Speaker mic earpiece (3.5mm right angle plug)	$60.00
OTTO V210273-S	H2O Evolution style IS rated with hi/lo volume switch (IP68)	$166.00
OTTO V210274-S	Evolution style IS rated with hi/lo volume switch and 2.5mm earphone jack	$164.00
OTTO V210314	Evolution heavy duty mic with hi/lo volume switch, 2.5mm earphone jack and 9-pin connector	$140.00
OTTO V210315	Evolution heavy duty mic with hi/lo volume switch and 9-pin connector immersion rated IP68	$140.00
OTTO V2L2CM11	Profile speaker mic with 9-pin connector	$115.00
Programming Software & Cables		
CSF70/F1700	Cloning Softwre F70/F80/F1721/F1821/F2721/F282	$72.00
OPC1533	Radio to radio cloning cable between F1721/2721/D series mobiles & F70/80/D portable radios	$88.00
OPC1536	Radio to radio cloning cable between F70/80/D portable radios	$123.00
OPC966	PC to radio programming cloning cable with RC-232S connector for radios with 9-pin connector	$168.00
OPC966U	PC to radio programming cloning cable with USB connector for radios with 9-pin connector	$168.00
PROGLM6789	Icom to program your radio or IAS product	$70.00

F70/F80 – F70D/F80D Series

High End Analog, P25, I.S. and FIPS Portables

Accessories

Model	Description	MSRP
RedHawk		
IAS BC-RHADPTR	100-240V charger adapter for use with the IAS OPC-RHUSB	$70.00
IAS BC-RHCHG1	100-240V single unit charger for RedHawk mic	$105.00
IAS BC-RHCHG12	100-240V 12 unit charger for the RedHawk mics	$1,000.00
IAS BP-RHBATT1	3.8V 1200mAh battery for RedHawk mic	$45.00
IAS CP-RHLP	12-24V cigarette lighter plug requiring 2 USB cables	$60.00
IAS CS-RHSW	Utility software to upload stored tracks, optional PC programming, online demos. One per customer needed.	$120.00
IAS OPC-RHI9	RedHawk 9-pin cable connects GPS mic to radio (works in analog only)	$99.00
IAS OPC-RHUSB	USB cable to connect mic with PC or charger adapter. One comes with each microphone.	$30.00
IAS REDHAWK	Speaker microhpone with GPS receiver. LCD display shows basic orientation of all members within a group. Battery & USB cable included. Cable that hooks from microphone to radio is required.	$584.00
Wire Kits		
OTTO V110822	2-Wire palm mic kit (earphone cable and mic/ptt cable) with 9-pin connector	$125.00

F9011 – F9021 Series

P25 Trunking Portables

SPECS

Frequencies:	136-174, 380-470, 400-470, 450-512MHz
Output Power:	6W (VHF); 5W (UHF)
Channels:	512 / 128 zones
Channel Spacing:	15 / 30kHz (analog) 12.5kHz (digital)
Display:	Dot matrix LCD with backlighting
Programmable Keys:	12 buttons, 1 toggle, 1 3-position switch
Mil Spec:	810 C, D, E
Scan:	Normal, priority & dual priority
Waterproof Rating:	IP57 submersible
Weight:	1.17lb (with BP-254)
Versions:	No display, no keypad Display, no DTMF keypad Display, full DTMF keypad

FEATURES

P25 Conventional & Trunking
Digital/analog mixed mode operation
100 individual ID and 250 talkgroup ID memories
DVSI's AMBE+2™ vocoder
OTAR (Over-the-air-rekeying) with UT-125 board installed
4-way navigational cross keypad (S & T versions)
Encryption toggle
3-position zone select switch
Tactical group function
Scan settings – dual priority, mode dependent, talk back and more
Man down: UT-124R
14 pin accessory connector with programmable key assign
Built-in audio compander
Compliant Standards:

- TIA/EIA TSB 102. CAAB compliant
- NTIA VHF specification compliant
- FIPS 140-2 (level 1) certified AES encryption

COMES WITH

Antenna (FA-S65V or FA-S58U)
Battery (BP-254)
Belt Clip (MB-115)
Owner's manual
Warranty: 3 years

ENCRYPTION

DES: UT-128
AES/DES: UT-125
AES FIPS: UT-125 FIPS

SIGNALING

CTCSS / DCS encode & decode (analog only)
2 Tone endocer and decoder (analog only)
DTMF autiodial (analog only)
MDC1200 (analog only)

F9011 – F9021 Series

P25 Trunking Portables

Configurations

Model	Description	MSRP
F9011B 01	136-174MHz P25 Trunking radio without a display or keypad	$1,636.00
F9011S 05	136-174MHz P25 Trunking radio with a display, no DTMF keypad	$2,020.00
F9011T 10	136-174MHz P25 Trunking radio with a display and full DTMF keypad	$2,200.00
F9021B 41	380-470MHz P25 Trunking radio without a display or keypad	$1,636.00
F9021S 45	380-470MHz P25 Trunking radio with a display, no DTMF keypad	$2,020.00
F9021T 50	380-470MHz P25 Trunking radio with a display and DTMF keypad	$2,200.00
F9021B 01	400-470MHz P25 Trunking radio without a display or keypad	$1,636.00
F9021S 05	400-470MHz P25 Trunking radio with a display, no DTMF keypad	$2,020.00
F9021T 10	400-470MHz P25 Trunking radio with a display and full DTMF keypad	$2,200.00
F9021B 21	450-512MHz P25 Trunking radio without a display or keypad	$1,636.00
F9021S 25	450-512MHz P25 Trunking radio with a display, no DTMF keypad	$2,020.00
F9021T 30	450-512MHz P25 Trunking radio with a display and full DTMF keypad	$2,200.00

Accessories

Model	Description	MSRP
EXTWARR811	1 year extended warranty for a total 4 years	$65.00
EXTWARR812	2 year extended warranty for a total 5 years	$93.00
EXTWARR813	3 year extended warranty for a total 6 years	$130.00
Antennas		
FAS25V	136-148 MHz flexible antenna - F9011 series	$10.00
FAS58U	400-470 MHz flexible antenna - standard on F9021	$16.00
FAS65V	148-160 MHz flexible antenna - standard on F9011	$17.00
FAS67VC	136-174 MHz cut antenna - F9011 series	$30.00
Batteries		
BP237	Battery case that holds 6 AA alkaline batteries	$39.00
BP254	Li-ion 7.2V 3040mAh (typical capacity), 2900mAh (minimum value) for P25 portables	$155.00
Belt Clips		
AW STUD/SWIVEL KIT	Metal stud that slides on like a belt clip and it's attached to a strong metal swivel belt clip	$21.00
MB115	Standard belt clip for F9011 series	$10.00
Cables		
OPC515L	DC power cable for single unit rapid chargers	$26.00
OPC656	DC power cable for BC121N or BC197 gang chargers	$12.00
Carrying Cases		
LCF9011S SWIVEL	Leather carrying case with a swivel clip for the F9011/9021 radios without a full keypad	$50.00
LCF9011T SWIVEL	Leather carrying case with a swivel clip for the F9011T/9021T radios with a full keypad cutout	$50.00
NCF9011S CLIP	Nylon carrying case with a clip for the F9011/9021 radios without a full keypad	$30.00
NCF9011T CLIP	Nylon carrying case with a clip for the F9011T/9021T radios with a full keypad	$30.00
Chargers		
AD110	Adapter cup to install in the BC119N or BC121N for the BP253 or BP254 batteries	$28.00
BC119N 01	110V rapid charger - requires radio specific adapter cup(not CEC compatible for Amateur/Marine radios)	$75.00
BC119N 02	220V rapid charger - requires radio specific adapter cup	$76.00

F9011 – F9021 Series

P25 Trunking Portables

Accessories

Model	Description	MSRP
BC119N 61	110V rapid charger with AD110 installed F70/80/9011/9021	$95.00
BC121N	6 unit multi-charger; requires radio specific adapter cups & BC157 AC adapter	$305.00
BC121N F70	6-Unit Charger Kit BC121N + BC157 + AD110 x 6	$593.00
BC121N F70 220V	220V 6-Unit Charger Kit BC121N + BC157 + AD110 x 6	$593.00
BC145SA 31	110V AC adapter for rapid chargers	$25.00
BC145SE 32	220V AC adapter for rapid chargers	$25.00
BC157S	110V power supply for 6 bank gang chargers	$120.00
BC157S 220V	220V power supply for the 6 bank gang chargers	$126.00
CP17L	12V cigarette lighter cable for use with BC-119N/BC-160	$30.00
CP23L	12V cigarette lighter cable for use with BC-119N/160/191/193/213	$35.00
Headsets		
HS94	Earpiece headset; use with VS1/OPC2004/OPC2006/OPC1392	$25.00
HS95	Headset with boom mic; use with VS1/OPC2004/OPC2006/OPC1392	$215.00
HS97	Earphone with throat mic headset; use with VS1/OPC2004/OPC2006/OPC1392	$42.00
VS1MC	VOX/PTT case with 14-pin connector. Must use with HS94/HS95/HS97.	$84.00
Internal Modules		
INSTALLLM6789	Icom installation charge	$70.00
UT124R 02	Man down unit	$90.00
UT125 01	AES/DES encryption board with OTAR compliance for P25 Trunking radios	$695.00
UT125 FIPS	AES/DES/FIPS encryption board with OTAR compliance for P25 Trunking radios	$789.00
UT128	DES encryption for P25 Trunking radios	$420.00
KVL		
KA KVL125	KVL unit powered by 9-volt battery	$3,185.00
OPC-IAKVL14	Interface Cable with 14 Pin Connector for F9011/F9021	$230.00
Microphones		
HM184H	14-pin loud waterproof speaker mic (no mic jack)	$118.00
HM-HD7I6WP	Large waterproof speaker microphone with 3.5mm accessory jack(14-pin connector)	$120.00
IMPACT HD3-I6	Lightweight heavy duty use speaker mic with 3.5mm accessory jack (14-pin connector)	$98.00
OTTO V110432	Speaker mic earpiece (2.5mm right angle plug)	$60.00
OTTO V110433	Speaker mic earpiece (3.5mm right angle plug)	$60.00
Programming Software & Cables		
CSF9010/F9510	F9011/9511 programming software	$72.00
OPC1534	Key Loader cable connects KVL3000Plus cable to Radio. For portables: requires OPC-1871 & RJ45 to RJ45 female-female modular adapter part#5610000510	$225.00
OPC1862	PC to radio programming cloning cable with USB connector for radios with 14-pin connector	$189.00
OPC1870	Radio to radio cloning cable between two 14-pin connector portable radios	$125.00
OPC1871	Radio to radio cloning cable between 14-pin connector portable & mobile radio	$110.00
PROGLM6789	Icom to program your radio or IAS product	$70.00
RedHawk		
IAS BC-RHADPTR	100-240V charger adapter for use with the IAS OPC-RHUSB	$70.00
IAS BC-RHCHG1	100-240V single unit charger for RedHawk mic	$105.00
IAS BC-RHCHG12	100-240V 12 unit charger for the RedHawk mics	$1,000.00

F9011 – F9021 Series

P25 Trunking Portables

Accessories

Model	Description	MSRP
IAS BP-RHBATT1	3.8V 1200mAh battery for RedHawk mic	$45.00
IAS CP-RHLP	12-24V cigarette lighter plug requiring 2 USB cables	$60.00
IAS CS-RHSW	Utility software to upload stored tracks, optional PC programming, online demos. One per customer needed.	$120.00
IAS OPC-RHI14	RedHawk 14-pin cable connects GPS mic to radio (works in analog, P25 digital and IDAS)	$275.00
IAS OPC-RHUSB	USB cable to connect mic with PC or charger adapter. One comes with each microphone.	$30.00
IAS REDHAWK	Speaker microhpone with GPS receiver. LCD display shows basic orientation of all members within a group. Battery & USB cable included. Cable that hooks from microphone to radio is required.	$584.00

4088A

FRS UHF FM Transceiver

SPECS & FEATURES

Output Power:	1/2W
Channels:	14, 38 group codes
Other Features:	38 CTCSS frequencies Easy to operate Water resistant Requires no license fees High performance antenna Built-in voice scrambler

WARRANTY

2-Year

4088A

FRS UHF FM Transceiver

Configurations

Model	Description	MSRP
4088A 15	FRS low power FM handheld with a short antenna	$165.00

Accessories

Model	Description	MSRP
Chargers		
BC119N 01	110V rapid charger - requires radio specific adapter cup(not CEC compatible for Amateur/Marine radios)	$75.00
BC119N 02	220V rapid charger - requires radio specific adapter cup	$76.00
BC121N	6 unit multi-charger; requires radio specific adapter cups & BC157 AC adapter	$305.00
BC145SA 31	110V AC adapter for rapid chargers	$25.00
BC153SA 52	110V trickle charger R5/R20	$39.00
BC157S	110V power supply for 6 bank gang chargers	$120.00
BC157S 220V	220V power supply for the 6 bank gang chargers	$126.00
CP18A	Cigarette lighter cable 12V	$40.00
Headsets		
HS85	Headset w/Vox with straight 2-pin connector	$145.00
HS94	Earpiece headset; use with VS1/OPC2004/OPC2006/OPC1392	$25.00
HS95	Headset with boom mic; use with VS1/OPC2004/OPC2006/OPC1392	$215.00
HS97	Earphone with throat mic headset; use with VS1/OPC2004/OPC2006/OPC1392	$42.00
Manuals		
97714833	4088A service manual hardcopy	$40.00
Microphones		
HM131	Speaker/microphone with earphone jack and clip (straight 2-pin, both stereo plug)	$45.00
Wire Kits		
HM128	Earphone-microphone with 2-pin straight connector	$30.00

Mobiles

F5011 - F6011 Series

Basic Mobiles

SPECS

Frequencies:	136-174, 400-470, 450-512MHz
Output Power:	50W (VHF), 45W (UHF)
Channels:	8 with 2 zones
Channel Spacing:	12.5kHz
Programmable Keys:	4
Mil Spec:	810 C, D, E
Scan:	Normal, priority & dual priority

FEATURES

- Priority scan function allows you to monitor one or two priority channels while scanning other non-priority channels
- Tx channel and talk back functions allow you to make a quick response while scanning
- 4W speaker
- Microphone hanger action programmable
- Time out timer, lock-out penalty timer
- Talk around function
- Power-on password
- Nuisance delete function

SIGNALING

CTCSS / DCS Encode/Decode
DTMF Encode
2/5 Tone

- Up to 10 2-tone codes can be decoded on a channel
- Up to 8 5-tone codes can be decoded on a channel

MDC1200

- PTT ID(Tx)
- Emergency call (Tx)
- Radio check (Rx)
- Stun/revive (Rx)

DTMF decode & autodial: UT-108R

COMES WITH

Microphone (HM-152)
Mounting bracket (F121 MMB)
Power cable (OPC-1132)
Owner's manual
Warranty: 2 years

ENCRYPTION

Simple Inversion: UT-109R 32 Codes
Rolling Code: UT-110R 1020 Codes

Meets MIL-STD 810

MDC 1200 Compatible

F5011 - F6011 Series

Basic Mobiles

Configurations

Model	Description	MSRP
F5011 51	136-174MHz mobile	$346.00
F6011 51	400-470MHz mobile	$346.00
F6011 52	450-512MHz mobile	$346.00

Accessories

Model	Description	MSRP
EXTWARR211	1 year extended warranty for a total 3 years	$25.00
EXTWARR212	2 year extended warranty for a total 4 years	$44.00
EXTWARR213	3 year extended warranty for a total 5 years	$62.00
Antennas		
ANTENNA 1	118-940MHz mountable unity antenna, Field Tunable, 1/4 WAVE, CHR	$20.00
ANTENNA 2	144-174MHz 3dB gain mountable antenna, CHR, 59" high	$38.00
ANTENNA 3	450-470MHz 5dB gain mountable antenna, CHR, 40" high	$42.00
ANTENNA 4	152-162MHz 3dB Gain Mountable Gray 1/4 Wave 21.6"	$20.00
Cables		
OPC1132	DC power cable. Comes standard with most mobile radios (9.8ft) and has a 2-pin T connector	$45.00
OPC1939	D-Sub 15-pin ACC cable. Connects with a PC, external speaker, external channel control, ignition sense line or vehicle horn	$95.00
OPC2078	D-Sub 25-pin ACC cable. Connects with a PC, external speaker, external channel control, ignition sense line or vehicle horn	$120.00
OPC347	DC power cable (23ft)	$70.00
External Speakers		
SP22	5W small mobile rectangular external speaker (4Ohm)	$58.00
SP30	20W large external speaker	$110.00
SP35	5W external speaker with 3.5mm speaker jack and 2m cable	$60.00
Internal Modules		
INSTALLLM1234	Icom installation charge	$40.00
UT108R	DTMF decoder, ANI unit	$39.00
UT109R 21	Non-rolling voice scrambler. Up to 32 codes available. Not compatible with radios using the UT-110.	$105.00
UT110R 21	Rolling voice scrambler. Up to 1020 (255 codes x 4 groups) codes available. Works only in analog mode.	$173.00
Manuals		
94415596	F5011 CD service manual	$40.00
94415697	F6011 CD service manual	$40.00
97715595	F5011 service manual hardcopy	$40.00
97715696	F6011 service manual hardcopy	$40.00
98815594	F5011/6011 owner's manual	$12.00
Microphones		
HM148G	Self grounding microphone for mobile radios	$67.00
HM148T	DMTF mobile microphone	$110.00
HM152	Standard microphone for low/mid range mobile radios	$44.00

F5011 - F6011 Series

Basic Mobiles

Accessories

Model	Description	MSRP
HM152T	DTMF modular microphone for LM mobile radios	$90.00
SM26	Desktop microphone with monitor switch for mobile radios	$90.00
Mounting Hardware		
F121 MMB	Mounting bracket F121/F221 F5011/F5021 series	$10.00
MOUNT 1	NMO Permanent Mount, 17ft RG58 cable, no connector	$23.00
MOUNT 2	Trunk Lid Mount/HD, BRKT, 45 DEG CBL, 58A/U PL259	$35.00
MOUNT 3	Black Magnetic Mount - 3 1/4" diameter, 12ft RG58 cable w/PL259 connector	$42.00
Power Supplies		
CONTROL STATION ASSEMBLE	Install mobile into power supply and cabinet to make control station	$0.00
ICT CS120-20AG/IC04	110V power supply and cabinet for control station use for F5011/5021/F5121/F5220	$230.00
ICT IC04 220V	220V power supply and cabinet for control station use for F5011/5021	$255.00
Programming Software & Cables		
CSF3021/F5021/F5011	F3021/5021/5011 series programming software	$72.00
OPC1122	PC to radio programming cloning cable for mobile radios with RC-232S connector.	$99.00
OPC1122U	PC to radio programming cloning cable for mobile radios with USB connector.	$99.00
PROGLM1234	Icom to program your radio or IAS product	$42.00
RedHawk		
IAS BC-RHADPTR	100-240V charger adapter for use with the IAS OPC-RHUSB	$70.00
IAS BC-RHCHG1	100-240V single unit charger for RedHawk mic	$105.00
IAS BC-RHCHG12	100-240V 12 unit charger for the RedHawk mics	$1,000.00
IAS BP-RHBATT1	3.8V 1200mAh battery for RedHawk mic	$45.00
IAS CP-RHLP	12-24V cigarette lighter plug requiring 2 USB cables	$60.00
IAS CS-RHSW	Utility software to upload stored tracks, optional PC programming, online demos. One per customer needed.	$120.00
IAS OPC-RHUSB	USB cable to connect mic with PC or charger adapter. One comes with each microphone.	$30.00
IAS REDHAWK	Speaker microhpone with GPS receiver. LCD display shows basic orientation of all members within a group. Battery & USB cable included. Cable that hooks from microphone to radio is required.	$584.00

F5021 - F6021 Series

Advanced Mobiles

SPECS

Frequencies:	136-174, 400-470, 450-512MHz
Output Power:	50W (VHF), 45W (UHF)
Channels:	128 channels, 8 zones
Channel Spacing:	12.5 kHz
Display:	LCD with 8 character alphanumeric
Programmable Keys:	6
Mil Spec:	810 C, D, E, F
Scan:	Normal & priority

FEATURES

External memory channel control w/ optional ACC cable
Tx channel setting & talk back function
Radio kill, stun, revive
Embedded ESN
Mode dependent scan
Lone worker function
Power-on password
Nuisance delete function

SIGNALING

CTCSS / DCS Encode/Decode
2/5 Tone Encode/Decode

- Up to 10 2-tone codes can be decoded on a channel
- Up to 8 5-tone codes can be decoded on a channel
- Programmable items for codes: Beep sound, Answer back, Scan, Bell icon, Radio stun/kill

MDC1200

- PTT ID (Tx/Rx)
- Radio stun (Rx)
- Emergency TX/RX
- Radio check (Rx)
- Radio revive (Rx)
- 5 alias table

COMES WITH

Microphone (HM-152)
Mounting bracket
Power cable (OPC-1132)
Owner's manual
Warranty: 2 years

ENCRYPTION

Simple Inversion: UT-109R 32 Codes
Rolling Code: UT-110R 1020 Codes

Meets MIL-STD 810

MDC 1200 Compatible

F5021 - F6021 Series

Advanced Mobiles

Configurations

Model	Description	MSRP
F5021 51	136-174MHz mobile	$395.00
F6021 51	400-470MHz mobile	$395.00
F6021 52	450-512MHz mobile	$395.00

Accessories

Model	Description	MSRP
EXTWARR211	1 year extended warranty for a total 3 years	$25.00
EXTWARR212	2 year extended warranty for a total 4 years	$44.00
EXTWARR213	3 year extended warranty for a total 5 years	$62.00
Antennas		
ANTENNA 1	118-940MHz mountable unity antenna, Field Tunable, 1/4 WAVE, CHR	$20.00
ANTENNA 2	144-174MHz 3dB gain mountable antenna, CHR, 59" high	$38.00
ANTENNA 3	450-470MHz 5dB gain mountable antenna, CHR, 40" high	$42.00
ANTENNA 4	152-162MHz 3dB Gain Mountable Gray 1/4 Wave 21.6"	$20.00
Cables		
OPC1132	DC power cable. Comes standard with most mobile radios (9.8ft) and has a 2-pin T connector	$45.00
OPC1939	D-Sub 15-pin ACC cable. Connects with a PC, external speaker, external channel control, ignition sense line or vehicle horn	$95.00
OPC2078	D-Sub 25-pin ACC cable. Connects with a PC, external speaker, external channel control, ignition sense line or vehicle horn	$120.00
OPC347	DC power cable (23ft)	$70.00
External Speakers		
SP22	5W small mobile rectangular external speaker (4Ohm)	$58.00
SP30	20W large external speaker	$110.00
SP35	5W external speaker with 3.5mm speaker jack and 2m cable	$60.00
Internal Modules		
INSTALLLM1234	Icom installation charge	$40.00
UT108R	DTMF decoder, ANI unit	$39.00
UT109R 21	Non-rolling voice scrambler. Up to 32 codes available. Not compatible with radios using the UT-110.	$105.00
UT110R 21	Rolling voice scrambler. Up to 1020 (255 codes x 4 groups) codes available. Works only in analog mode.	$173.00
Manuals		
94415499	F5021 CD service manual	$40.00
94415641	F6021 CD service manual	$40.00
97715439	F5021 service manual	$40.00
97715473	F6021 service manual	$40.00
98815638	F5021/6021 owner's manual	$12.00
Microphones		
HM148G	Self grounding microphone for mobile radios	$67.00
HM148T	DMTF mobile microphone	$110.00
HM152	Standard microphone for low/mid range mobile radios	$44.00

F5021 - F6021 Series

Advanced Mobiles

Accessories

Model	Description	MSRP
HM152T	DTMF modular microphone for LM mobile radios	$90.00
SM26	Desktop microphone with monitor switch for mobile radios	$90.00
Mounting Hardware		
F121 MMB	Mounting bracket F121/F221 F5011/F5021 series	$10.00
MOUNT 1	NMO Permanent Mount, 17ft RG58 cable, no connector	$23.00
MOUNT 2	Trunk Lid Mount/HD, BRKT, 45 DEG CBL, 58A/U PL259	$35.00
MOUNT 3	Black Magnetic Mount - 3 1/4" diameter, 12ft RG58 cable w/PL259 connector	$42.00
Power Supplies		
CONTROL STATION ASSEMBLE	Install mobile into power supply and cabinet to make control station	$0.00
ICT CS120-20AG/IC04	110V power supply and cabinet for control station use for F5011/5021/F5121/F5220	$230.00
ICT IC04 220V	220V power supply and cabinet for control station use for F5011/5021	$255.00
Programming Software & Cables		
CSF3021/F5021/F5011	F3021/5021/5011 series programming software	$72.00
OPC1122	PC to radio programming cloning cable for mobile radios with RC-232S connector.	$99.00
OPC1122U	PC to radio programming cloning cable for mobile radios with USB connector.	$99.00
PROGLM1234	Icom to program your radio or IAS product	$42.00
RedHawk		
IAS BC-RHADPTR	100-240V charger adapter for use with the IAS OPC-RHUSB	$70.00
IAS BC-RHCHG1	100-240V single unit charger for RedHawk mic	$105.00
IAS BC-RHCHG12	100-240V 12 unit charger for the RedHawk mics	$1,000.00
IAS BP-RHBATT1	3.8V 1200mAh battery for RedHawk mic	$45.00
IAS CP-RHLP	12-24V cigarette lighter plug requiring 2 USB cables	$60.00
IAS CS-RHSW	Utility software to upload stored tracks, optional PC programming, online demos. One per customer needed.	$120.00
IAS OPC-RHUSB	USB cable to connect mic with PC or charger adapter. One comes with each microphone.	$30.00
IAS REDHAWK	Speaker microhpone with GPS receiver. LCD display shows basic orientation of all members within a group. Battery & USB cable included. Cable that hooks from microphone to radio is required.	$584.00

F5220D - F6220D Series

VHF and UHF Digital Transceivers

SPECS

Frequencies:	136-174, 400-470, 450-512
Output Power:	50W (VHF); 45W (UHF)
Channels:	128 with 8 zones
Channel Spacing:	15 / 12.5 / 6.25kHz
Mil Spec:	MIL 810
Scan:	Priority/Vote/Roaming
Weight:	2.4lb

FEATURES

General Features:

- Channel announcement
- CTCSS/DTCS encoder/decoder
- Microphone hanger action programmable
- Power-on password function
- Talk around function
- Voting scan
- Nuisance delete function
- Time-out-timer, lock-out penalty

Digital Features:

- NXDN™ CAI-based IDAS digital mode operation
- Up to 500 individual and up to 500 group ID aliases (Each for single-site/multi-site/conventional)
- PTT ID and ANI
- Call alert
- Status
- SDM (Short Data Message)
- Radio check (RX)
- RAN (Radio Access Number)
- Remote monitor (RX)
- Emergency
- Digital voice scrambler
- ATB (All Trunks Busy) ring back

COMES WITH

Hand Microphone (HM-152)
Mounting bracket kit
DC Power cable (OPC-1132)
Owner's manual
Warranty: 2 years

F5220D - F6220D Series

VHF and UHF Digital Transceivers

Configurations

Model	Description	MSRP
F5220D 01	136-174MHz IDAS mobile	$695.00
F6220D 01	400-470MHz IDAS mobile	$695.00
F6220D 21	450-512MHz IDAS mobile	$695.00

Accessories

Model	Description	MSRP
EXTWARR211	1 year extended warranty for a total 3 years	$25.00
EXTWARR212	2 year extended warranty for a total 4 years	$44.00
EXTWARR213	3 year extended warranty for a total 5 years	$62.00
Antennas		
ANTENNA 1	118-940MHz mountable unity antenna, Field Tunable, 1/4 WAVE, CHR	$20.00
ANTENNA 2	144-174MHz 3dB gain mountable antenna, CHR, 59" high	$38.00
ANTENNA 3	450-470MHz 5dB gain mountable antenna, CHR, 40" high	$42.00
ANTENNA 4	152-162MHz 3dB Gain Mountable Gray 1/4 Wave 21.6"	$20.00
Cables		
OPC1132	DC power cable. Comes standard with most mobile radios (9.8ft) and has a 2-pin T connector	$45.00
OPC1939	D-Sub 15-pin ACC cable. Connects with a PC, external speaker, external channel control, ignition sense line or vehicle horn	$95.00
OPC2078	D-Sub 25-pin ACC cable. Connects with a PC, external speaker, external channel control, ignition sense line or vehicle horn	$120.00
External Speakers		
SP22	5W small mobile rectangular external speaker (4Ohm)	$58.00
SP30	20W large external speaker	$110.00
SP35	5W external speaker with 3.5mm speaker jack and 2m cable	$60.00
GPS		
IA-10301	GPS receiver for IDAS mobiles that connects to the DB-25 accessory connector.	$110.00
Manuals		
94416649	F6220D CD service manual	$40.00
94416651	F5220D CD service manual	$40.00
97716648	F6220D hardcopy service manual	$40.00
97716650	F5220D hardcopy service manual	$40.00
98816647	F5220D/6220D hardcopy service manual	$12.00
Microphones		
HM148G	Self grounding microphone for mobile radios	$67.00
HM148T	DMTF mobile microphone	$110.00
HM152	Standard microphone for low/mid range mobile radios	$44.00
HM152T	DTMF modular microphone for LM mobile radios	$90.00
SM26	Desktop microphone with monitor switch for mobile radios	$90.00
Mounting Hardware		
F121 MMB	Mounting bracket F121/F221 F5011/F5021 series	$10.00
MOUNT 1	NMO Permanent Mount, 17ft RG58 cable, no connector	$23.00

F5220D - F6220D Series

VHF and UHF Digital Transceivers

Accessories

Model	Description	MSRP
MOUNT 2	Trunk Lid Mount/HD, BRKT, 45 DEG CBL, 58A/U PL259	$35.00
MOUNT 3	Black Magnetic Mount - 3 1/4" diameter, 12ft RG58 cable w/PL259 connector	$42.00
Power Supplies		
CONTROL STATION ASSEMBLE	Install mobile into power supply and cabinet to make control station	$0.00
ICT CS120-20AG/IC04	110V power supply and cabinet for control station use for F5011/5021/F5121/F5220	$230.00
ICT IC04 220V	220V power supply and cabinet for control station use for F5011/5021	$255.00
Programming Software & Cables		
CSF3210D	F3210D/4210D, CSF3230D/4230D & F5220D/6220D programming software	$72.00
OPC1122	PC to radio programming cloning cable for mobile radios with RC-232S connector.	$99.00
OPC1122U	PC to radio programming cloning cable for mobile radios with USB connector.	$99.00
PROGLM6789	Icom to program your radio or IAS product	$70.00
RedHawk		
IAS BC-RHADPTR	100-240V charger adapter for use with the IAS OPC-RHUSB	$70.00
IAS BC-RHCHG1	100-240V single unit charger for RedHawk mic	$105.00
IAS BC-RHCHG12	100-240V 12 unit charger for the RedHawk mics	$1,000.00
IAS BP-RHBATT1	3.8V 1200mAh battery for RedHawk mic	$45.00
IAS CP-RHLP	12-24V cigarette lighter plug requiring 2 USB cables	$60.00
IAS CS-RHSW	Utility software to upload stored tracks, optional PC programming, online demos. One per customer needed.	$120.00
IAS OPC-RHUSB	USB cable to connect mic with PC or charger adapter. One comes with each microphone.	$30.00
IAS REDHAWK	Speaker microhpone with GPS receiver. LCD display shows basic orientation of all members within a group. Battery & USB cable included. Cable that hooks from microphone to radio is required.	$584.00

F5121D - F6121D Series

IDAS™ (Conventional & Digital) Mobiles

SPECS

Frequencies:	136-174, 400-470, 450-512MHz
Output Power:	50W (VHF), 45W (UHF)
Channels:	128 with 8 zones
Channel Spacing:	12.5kHz; 6.25kHz Digital
LCD Display:	8 Character alphanumeric LCD with backlit or night time operation
Programmable Keys:	7
Mil Spec:	810 C, D, E, F
Scan:	Normal, priority & dual priority

FEATURES

General Features:

- Lone worker function
- Power-on password function
- Time out timer
- Mic hanger action programmable

Digital Features:

- IDAS™ conventional
- IDAS™ single-site trunking
- Digital / Analog mixed mode operation
- NXDN® Digital Air Interface
- AMBE+2™ VOCODER
- 64 Radio Access Numbers (RAN)
- GPS receiver connection w/ optional OPC-2078 ACC cable
- Programmable features:
  - PTT ID
  - RAN (radio access number)
  - Individual/talkgroup list (max 500)
  - SDM (short data message)
  - Remote monitor (Rx)
  - Digital voice scrambler
  - Call alert, stun/kill/revive (Rx), Emergency
  - Status, Radio check (Rx)

COMES WITH

Microphone (HM-152)
Mounting bracket kit
DC Power cable (OPC-1132)
Owner's manual
Warranty: 2 years

SIGNALING

2/5 Tone in analog mode
CTCSS/DTCS encoder/decoder (analog only)
DTMF Encode
DTMF Decode: UT-108R
MDC1200

- PTT ID
- Emergency
- Radio check (Rx)
- Stun/revive (Rx)
- 500 alias table

F5121D - F6121D Series

IDAS™ (Conventional & Digital) Mobiles

Configurations

Model	Description	MSRP
F5121D 56	136-174MHz IDAS mobile	$635.00
F6121D 57	400-470MHz IDAS mobile	$635.00
F6121D 58	450-512MHz IDAS mobile	$635.00

Accessories

Model	Description	MSRP
EXTWARR211	1 year extended warranty for a total 3 years	$25.00
EXTWARR212	2 year extended warranty for a total 4 years	$44.00
EXTWARR213	3 year extended warranty for a total 5 years	$62.00
Antennas		
ANTENNA 1	118-940MHz mountable unity antenna, Field Tunable, 1/4 WAVE, CHR	$20.00
ANTENNA 2	144-174MHz 3dB gain mountable antenna, CHR, 59" high	$38.00
ANTENNA 3	450-470MHz 5dB gain mountable antenna, CHR, 40" high	$42.00
ANTENNA 4	152-162MHz 3dB Gain Mountable Gray 1/4 Wave 21.6"	$20.00
Cables		
OPC1132	DC power cable. Comes standard with most mobile radios (9.8ft) and has a 2-pin T connector	$45.00
OPC1939	D-Sub 15-pin ACC cable. Connects with a PC, external speaker, external channel control, ignition sense line or vehicle horn	$95.00
OPC2078	D-Sub 25-pin ACC cable. Connects with a PC, external speaker, external channel control, ignition sense line or vehicle horn	$120.00
OPC347	DC power cable (23ft)	$70.00
External Speakers		
SP22	5W small mobile rectangular external speaker (4Ohm)	$58.00
SP30	20W large external speaker	$110.00
SP35	5W external speaker with 3.5mm speaker jack and 2m cable	$60.00
GPS		
IA-10301	GPS receiver for IDAS mobiles that connects to the DB-25 accessory connector.	$110.00
Internal Modules		
INSTALLLM1234	Icom installation charge	$40.00
UT108R	DTMF decoder, ANI unit	$39.00
UT109R 21	Non-rolling voice scrambler. Up to 32 codes available. Not compatible with radios using the UT-110.	$105.00
UT110R 21	Rolling voice scrambler. Up to 1020 (255 codes x 4 groups) codes available. Works only in analog mode.	$173.00
Manuals		
94415608	F5121D CD service manual	$40.00
94415695	F6121D CD service manual	$40.00
97715607	F5121D service manual - hardcopy	$40.00
97715710	F6121D service manual - hardcopy	$40.00
98815606	F5121D/6121D owner's manual	$12.00

F5121D - F6121D Series

IDAS™ (Conventional & Digital) Mobiles

Accessories

Model	Description	MSRP
Microphones		
HM148G	Self grounding microphone for mobile radios	$67.00
HM148T	DMTF mobile microphone	$110.00
HM152	Standard microphone for low/mid range mobile radios	$44.00
HM152T	DTMF modular microphone for LM mobile radios	$90.00
SM26	Desktop microphone with monitor switch for mobile radios	$90.00
Mounting Hardware		
F121 MMB	Mounting bracket F121/F221 F5011/F5021 series	$10.00
MOUNT 1	NMO Permanent Mount, 17ft RG58 cable, no connector	$23.00
MOUNT 2	Trunk Lid Mount/HD, BRKT, 45 DEG CBL, 58A/U PL259	$35.00
MOUNT 3	Black Magnetic Mount - 3 1/4" diameter, 12ft RG58 cable w/PL259 connector	$42.00
Power Supplies		
CONTROL STATION ASSEMBLE	Install mobile into power supply and cabinet to make control station	$0.00
ICT CS120-20AG/IC04	110V power supply and cabinet for control station use for F5011/5021/F5121/F5220	$230.00
ICT IC04 220V	220V power supply and cabinet for control station use for F5011/5021	$255.00
Programming Software & Cables		
CSF3101D/F5121D	F3101D/F5121D series programming software	$72.00
OPC1122	PC to radio programming cloning cable for mobile radios with RC-232S connector.	$99.00
OPC1122U	PC to radio programming cloning cable for mobile radios with USB connector.	$99.00
PROGLM6789	Icom to program your radio or IAS product	$70.00
RedHawk		
IAS BC-RHADPTR	100-240V charger adapter for use with the IAS OPC-RHUSB	$70.00
IAS BC-RHCHG1	100-240V single unit charger for RedHawk mic	$105.00
IAS BC-RHCHG12	100-240V 12 unit charger for the RedHawk mics	$1,000.00
IAS BP-RHBATT1	3.8V 1200mAh battery for RedHawk mic	$45.00
IAS CP-RHLP	12-24V cigarette lighter plug requiring 2 USB cables	$60.00
IAS CS-RHSW	Utility software to upload stored tracks, optional PC programming, online demos. One per customer needed.	$120.00
IAS OPC-RHUSB	USB cable to connect mic with PC or charger adapter. One comes with each microphone.	$30.00
IAS REDHAWK	Speaker microhpone with GPS receiver. LCD display shows basic orientation of all members within a group. Battery & USB cable included. Cable that hooks from microphone to radio is required.	$584.00

F1721/F1821 - F2721/F2821 Series

High End Analog, P25 Mobiles

SPECS

Frequencies:	136-174, 400-470, 450-512MHz
Output Power:	50W (VHF); 45W (UHF)
Channels:	256 with 32 zones
Channel Spacing:	12.5 / 25kHz
LCD Display:	Dot matrix, switchable 1 line 12 characters or 2 lines 24 characters
Programmable Keys:	5 (simple version) or 7 (10-key version)
Mil Spec:	810 C, D, E
Scan:	Normal, priority & dual priority
Versions:	Analog only (upgradeable to P25) P25 ready (D versions)

FEATURES

General Features

- Detachable front panel
- Radio stun / kill
- Tactical group function
- Built-in audio compander (analog only)
- 22W PA built-in
- Power-on password function

Digital P25 Features

- Interoperability with other manufacturer's P25 digital radios in conventional mode
- Compatible w/ both analog FM & P25 digital mode

SIGNALING

MDC1200
CTCSS/DCS encode/decode
DTMF decode
2/5 tone encode/decode
Enhanced MDC (optional on analog)
ANI with 2/5 tone & DTMF

COMES WITH

Hand mic (HM-148G)
External speaker (SP-22) for F1821/2821
Mounting bracket kit
DC Power cable (OPC-1132)
Owner's manual
Warranty: 2-Year
3-Year ("D" series)

ENCRYPTION

Simple Inversion: UT-109 02 32 Codes
Rolling Code: UT-110 02 1020 Codes

Meets MIL-STD 810 | OTTO ACCESSORIES AVAILABLE | MDC 1200 Compatible | P25

F1721/F1821 - F2721/F2821 Series

High End Analog, P25 Mobiles

Configurations

Model	Description	MSRP
IAS HPUK F1721	136-174MHz 100W mobile kit	$2,135.00
F1721 43	136-174MHz analog mobile (P25 upgradeable)	$855.00
IAS HPUK F1721D	136-174MHz 100W P25 mobile kit	$2,810.00
F1721D 41	136-174MHz P25 mobile	$1,258.00
F1821D 11	136-174MHz P25 mobile with full keypad and external speaker	$1,345.00
F2721D 03	400-470MHz analog mobile, upgradeable to P25	$810.00
F2721D 01	400-470MHz P25 mobile	$1,520.00
F2821D 23	400-470MHz analog mobile, upgradeable to P25	$650.00
F2821D 21	400-470MHz P25 mobile	$820.00
F2821D 22	450-512MHz P25 mobile	$799.00

Accessories

Model	Description	MSRP
EX2785J02	DES activation upgrade	$551.00
EX2785J03	AES activation upgrade	$656.00
EXTWARR611	1 year extended warranty	$40.00
EXTWARR612	2 year extended warranty	$70.00
EXTWARR613	3 year extended warranty	$110.00
EXTWARR811	1 year extended warranty for a total 4 years	$65.00
EXTWARR812	2 year extended warranty for a total 5 years	$93.00
EXTWARR813	3 year extended warranty for a total 6 years	$130.00
Antennas		
ANTENNA 1	118-940MHz mountable unity antenna, Field Tunable, 1/4 WAVE, CHR	$20.00
ANTENNA 2	144-174MHz 3dB gain mountable antenna, CHR, 59" high	$38.00
ANTENNA 3	450-470MHz 5dB gain mountable antenna, CHR, 40" high	$42.00
ANTENNA 4	152-162MHz 3dB Gain Mountable Gray 1/4 Wave 21.6"	$20.00
Cables		
OPC1132	DC power cable. Comes standard with most mobile radios (9.8ft) and has a 2-pin T connector	$45.00
OPC347	DC power cable (23ft)	$70.00
OPC617	Accesory cable for external terminal connection	$65.00
External Speakers		
SP22	5W small mobile rectangular external speaker (4Ohm)	$58.00
SP30	20W large external speaker	$110.00
SP35	5W external speaker with 3.5mm speaker jack and 2m cable	$60.00
Internal Modules		
INSTALLLM1234	Icom installation charge	$40.00
UT109 02	Non-rolling voice scrambler. Up to 32 codes available. Not compatible with radios using the UT-110.	$105.00
UT110 02	Rolling voice scrambler. Up to 1020 (255 codes x 4 groups) codes available.	$173.00
UT120 02	P25 Hardware Upgrade Board - Mobiles	$541.00
KVL		
KA KVL125	KVL unit powered by 9-volt battery	$3,185.00

F1721/F1821 - F2721/F2821 Series

High End Analog, P25 Mobiles

Accessories

Model	Description	MSRP
OPC-IAKVL1	Interface Cable with RJ45 Connector for P25 mobiles	$150.00
Manuals		
94414901	F1721/1821/2721/2821 CD service manual	$40.00
97714917	F1721/D & F1821/D service manual hardcopy	$40.00
98814877	F1721/D, F1821/D, F2721/D, F2821/D owner's manual	$12.00
Microphones		
HM148G	Self grounding microphone for mobile radios	$67.00
HM148T	DMTF mobile microphone	$110.00
HM152	Standard microphone for low/mid range mobile radios	$44.00
HM152T	DTMF modular microphone for LM mobile radios	$90.00
SM26	Desktop microphone with monitor switch for mobile radios	$90.00
Mounting Hardware		
F1721 MMB	Mounting bracket for F1721/F1821, F2721/2821, F9011S/T	$10.00
MOUNT 1	NMO Permanent Mount, 17ft RG58 cable, no connector	$23.00
MOUNT 2	Trunk Lid Mount/HD, BRKT, 45 DEG CBL, 58A/U PL259	$35.00
MOUNT 3	Black Magnetic Mount - 3 1/4" diameter, 12ft RG58 cable w/PL259 connector	$42.00
Power Supplies		
CONTROL STATION ASSEMBLE	Install mobile into power supply and cabinet to make control station	$0.00
ICT CS120-20A/IC06	110V power supply & cabinet for control station use on P25 radios	$230.00
ICT IC06 220V	220V power supply & cabinet for control station use on P25 radios	$255.00
Programming Software & Cables		
CSF70/F1700	Cloning Softwre F70/F80/F1721/F1821/F2721/F282	$72.00
OPC1122	PC to radio programming cloning cable for mobile radios with RC-232S connector.	$99.00
OPC1122U	PC to radio programming cloning cable for mobile radios with USB connector.	$99.00
OPC1532	Radio to radio cloning cable between P25 mobile radios	$42.00
OPC1533	Radio to radio cloning cable between F1721/2721/D series mobiles & F70/80/D portable radios	$88.00
OPC1534	Key Loader cable connects KVL3000Plus cable to Radio. For portables: requires OPC-1871 & RJ45 to RJ45 female-female modular adapter part#5610000510	$225.00
PROGLM6789	Icom to program your radio or IAS product	$70.00
RedHawk		
IAS BC-RHADPTR	100-240V charger adapter for use with the IAS OPC-RHUSB	$70.00
IAS BC-RHCHG1	100-240V single unit charger for RedHawk mic	$105.00
IAS BC-RHCHG12	100-240V 12 unit charger for the RedHawk mics	$1,000.00
IAS BP-RHBATT1	3.8V 1200mAh battery for RedHawk mic	$45.00
IAS CP-RHLP	12-24V cigarette lighter plug requiring 2 USB cables	$60.00
IAS CS-RHSW	Utility software to upload stored tracks, optional PC programming, online demos. One per customer needed.	$120.00
IAS OPC-RHI1D	RedHawk cable connects GPS mic to P25 mobile radios (works in both analog and P25 digital)	$225.00
IAS OPC-RHUSB	USB cable to connect mic with PC or charger adapter. One comes with each microphone.	$30.00
IAS REDHAWK	Speaker microhpone with GPS receiver. LCD display shows basic orientation of all members within a group. Battery & USB cable included. Cable that hooks from microphone to radio is required.	$584.00

F1721/F1821 - F2721/F2821 Series

High End Analog, P25 Mobiles

Accessories

Model	Description	MSRP
Remote Mounting		
OPC607	3m/9.8ft separation cable for remote mounting kits	$57.00
OPC608	8m/26.2ft separation cable for remote mounting kits	$76.00
OPC609	1.9m/6.2ft separation cable for remote mounting kits	$55.00
OPC726	5m/16.4ft separation cable for remote mounting kits	$65.00
RMK2	F1721/1821 bracket & face plate for remote mounting. Separation cable not included	$145.00

F5061 - F6061 & F5061D - F6061D Series

Analog, LTR, Digital or PassPort Mobiles

SPECS

Frequencies:	136-174, 400-470, 450-512MHz
Output Power:	50W (VHF), 45W (UHF)
Channels:	512 channels, 128 zones
Channel Spacing:	12.5kHz, 6.25kHz (D versions)
LCD Display:	Dot matrix, switchable 1 line 12 character or 2 line 24 character
Programmable Keys:	7
Mil Spec:	810 C, D, E
Scan:	Normal, priority & dual priority

FEATURES

General Features

- Basic LTR, Analog, Digital mixed mode
- Detachable front panel (req. separation kit)
- D-Sub accessory connector
- 8 DTMF autodial memories & ANI functions
- Power ON password
- Radio stun/kill
- Surveillance function (temp. turns LEDs off)
- Busy repeater lock out function

Digital Features:

- IDAS Trunking-single or multisite
- Voting mode scanning
- NXDN® Digital Air Interface
- Short & long data messages
- 64 Radio Access Numbers (RAN)
- Individual & group selective call
- Strongest site search
- Firmware upgrade over IP
- Configuration over IP

SIGNALING

CTCSS/DCS encode/decode
2/5 Tone
DTMF
ANI with 2/5 tone & DTMF
MDC1200
Enhanced MDC option (EMDC)
PassPort® (optional)

ENCRYPTION

Simple Inversion: UT-109R 32 Codes
Rolling Code: UT-110R 1020 Codes

COMES WITH

Microphone (HM-148G)
Mounting bracket
Power cable (OPC-1132)
Owner's manual
Warranty: 3 years

MULTITRUNK iDAS Meets MIL-STD 810 MDC 1200 Compatible

F5061 - F6061 & F5061D - F6061D Series

Analog, LTR, Digital or PassPort Mobiles

Configurations

Model	Description	MSRP
F5061 11	136-174MHz analog only mobile	$600.00
F5061D 51	136-174MHz IDAS mobile	$785.00
F5061D 61	136-174MHz IDAS radio, RR firmware installed, HM-148T included	$853.00
F6061 11	400-470MHz analog mobile	$600.00
F6061 16	450-512MHz analog mobile	$600.00
F6061D 31	400-470MHz IDAS mobile	$785.00
F6061D 36	450-512MHz IDAS mobile	$785.00

Accessories

Model	Description	MSRP
EXTWARR611	1 year extended warranty	$40.00
EXTWARR612	2 year extended warranty	$70.00
EXTWARR613	3 year extended warranty	$110.00
RR FIRMWARE UPGRADE	Add 3.1 RR firmware to your IDAS radio	$0.00
Antennas		
ANTENNA 1	118-940MHz mountable unity antenna, Field Tunable, 1/4 WAVE, CHR	$20.00
ANTENNA 2	144-174MHz 3dB gain mountable antenna, CHR, 59" high	$38.00
ANTENNA 3	450-470MHz 5dB gain mountable antenna, CHR, 40" high	$42.00
ANTENNA 4	152-162MHz 3dB Gain Mountable Gray 1/4 Wave 21.6"	$20.00
Cables		
F5061 IGN SENSE CABLE	96" cable with 3A fuse	$15.00
OPC1132	DC power cable. Comes standard with most mobile radios (9.8ft) and has a 2-pin T connector	$45.00
OPC347	DC power cable (23ft)	$70.00
External Speakers		
SP22	5W small mobile rectangular external speaker (4Ohm)	$58.00
SP30	20W large external speaker	$110.00
SP35	5W external speaker with 3.5mm speaker jack and 2m cable	$60.00
Filters		
PW LF-1	Noise filter to use with the F5061D with the UT-IA100 already installed.	$55.00
GPS		
IA-10301	GPS receiver for IDAS mobiles that connects to the DB-25 accessory connector.	$110.00
Internal Modules		
INSTALLLM1234	Icom installation charge	$40.00
UT109R 21	Non-rolling voice scrambler. Up to 32 codes available. Not compatible with radios using the UT-110.	$105.00
UT110R 21	Rolling voice scrambler. Up to 1020 (255 codes x 4 groups) codes available. Works only in analog mode.	$173.00
UT126H 03	6.25kHz digital module for F3161/4161 or F5061/6061 radios	$250.00
UT-IA100	Audio amp board (factory install ONLY; install included in price – F5061D only)	$100.00

F5061 - F6061 & F5061D - F6061D Series

Analog, LTR, Digital or PassPort Mobiles

Accessories

Model	Description	MSRP
Manuals		
94415251	F5061/F6061 CD service manual	$40.00
97715252	F5061/D service manual - hardcopy	$40.00
97715259	F6061/D service manual - hardcopy	$40.00
98815253	F5061/D owner's manual	$12.00
98815260	F6061/D owner's manual	$12.00
Microphones		
HM148G	Self grounding microphone for mobile radios	$67.00
HM148T	DMTF mobile microphone	$110.00
HM152	Standard microphone for low/mid range mobile radios	$44.00
HM152T	DTMF modular microphone for LM mobile radios	$90.00
SM26	Desktop microphone with monitor switch for mobile radios	$90.00
Mounting Hardware		
F5061 MMB	Mounting bracket included with the F5061/F6061	$10.00
MOUNT 1	NMO Permanent Mount, 17ft RG58 cable, no connector	$23.00
MOUNT 2	Trunk Lid Mount/HD, BRKT, 45 DEG CBL, 58A/U PL259	$35.00
MOUNT 3	Black Magnetic Mount - 3 1/4" diameter, 12ft RG58 cable w/PL259 connector	$42.00
MSA 1421-00LRM	Locking trunnion for F5061/6061	$53.00
Power Supplies		
CONTROL STATION ASSEMBLE	Install mobile into power supply and cabinet to make control station	$0.00
ICT CS120-20AG/IC09	110V power supply and cabinet for control station use for F5061/6061	$230.00
ICT IC09 220V	220V power supply and cabinet for control station use for F5061/6061	$255.00
Programming Software & Cables		
CSF3161/F5061	Software to program the F3161/4161 & F5061/6061 radios	$72.00
OPC1122	PC to radio programming cloning cable for mobile radios with RC-232S connector.	$99.00
OPC1122U	PC to radio programming cloning cable for mobile radios with USB connector.	$99.00
OPC1871	Radio to radio cloning cable between 14-pin connector portable & mobile radio	$110.00
PROGLM6789	Icom to program your radio or IAS product	$70.00
RedHawk		
IAS BC-RHADPTR	100-240V charger adapter for use with the IAS OPC-RHUSB	$70.00
IAS BC-RHCHG1	100-240V single unit charger for RedHawk mic	$105.00
IAS BC-RHCHG12	100-240V 12 unit charger for the RedHawk mics	$1,000.00
IAS BP-RHBATT1	3.8V 1200mAh battery for RedHawk mic	$45.00
IAS CP-RHLP	12-24V cigarette lighter plug requiring 2 USB cables	$60.00
IAS CS-RHSW	Utility software to upload stored tracks, optional PC programming, online demos. One per customer needed.	$120.00
IAS OPC-RHUSB	USB cable to connect mic with PC or charger adapter. One comes with each microphone.	$30.00
IAS REDHAWK	Speaker microhpone with GPS receiver. LCD display shows basic orientation of all members within a group. Battery & USB cable included. Cable that hooks from microphone to radio is required.	$584.00

F5061 - F6061 & F5061D - F6061D Series

Analog, LTR, Digital or PassPort Mobiles

Accessories

Model	Description	MSRP
Remote Mounting		
OPC607	3m/9.8ft separation cable for remote mounting kits	$57.00
OPC608	8m/26.2ft separation cable for remote mounting kits	$76.00
OPC609	1.9m/6.2ft separation cable for remote mounting kits	$55.00
OPC726	5m/16.4ft separation cable for remote mounting kits	$65.00
RMK3 01	F5061/6061 bracket & face plate for remote mounting. Separation cable not included	$110.00

F1721/F1821 - F2721/F2821 Series

High End Analog, P25 Mobiles

SPECS

Frequencies:	136-174, 400-470, 450-512MHz
Output Power:	50W (VHF); 45W (UHF)
Channels:	256 with 32 zones
Channel Spacing:	12.5 / 25kHz
LCD Display:	Dot matrix, switchable 1 line 12 characters or 2 lines 24 characters
Programmable Keys:	5 (simple version) or 7 (10-key version)
Mil Spec:	810 C, D, E
Scan:	Normal, priority & dual priority
Versions:	Analog only (upgradeable to P25) P25 ready (D versions)

FEATURES

General Features

- Detachable front panel
- Radio stun / kill
- Tactical group function
- Built-in audio compander (analog only)
- 22W PA built-in
- Power-on password function

Digital P25 Features

- Interoperability with other manufacturer's P25 digital radios in conventional mode
- Compatible w/ both analog FM & P25 digital mode

SIGNALING

MDC1200
CTCSS/DCS encode/decode
DTMF decode
2/5 tone encode/decode
Enhanced MDC (optional on analog)
ANI with 2/5 tone & DTMF

COMES WITH

Hand mic (HM-148G)
External speaker (SP-22) for F1821/2821
Mounting bracket kit
DC Power cable (OPC-1132)
Owner's manual
Warranty: 2-Year
3-Year ("D" series)

ENCRYPTION

Simple Inversion: UT-109 02 32 Codes
Rolling Code: UT-110 02 1020 Codes

Meets MIL-STD 810 | OTTO ACCESSORIES AVAILABLE | MDC 1200 Compatible | P25

F1721/F1821 - F2721/F2821 Series

High End Analog, P25 Mobiles

Configurations

Model	Description	MSRP
IAS HPUK F1721	136-174MHz 100W mobile kit	$2,135.00
F1721 43	136-174MHz analog mobile (P25 upgradeable)	$855.00
IAS HPUK F1721D	136-174MHz 100W P25 mobile kit	$2,810.00
F1721D 41	136-174MHz P25 mobile	$1,258.00
F1821D 11	136-174MHz P25 mobile with full keypad and external speaker	$1,345.00
F2721D 03	400-470MHz analog mobile, upgradeable to P25	$810.00
F2721D 01	400-470MHz P25 mobile	$1,520.00
F2821D 23	400-470MHz analog mobile, upgradeable to P25	$650.00
F2821D 21	400-470MHz P25 mobile	$820.00
F2821D 22	450-512MHz P25 mobile	$799.00

Accessories

Model	Description	MSRP
EX2785J02	DES activation upgrade	$551.00
EX2785J03	AES activation upgrade	$656.00
EXTWARR611	1 year extended warranty	$40.00
EXTWARR612	2 year extended warranty	$70.00
EXTWARR613	3 year extended warranty	$110.00
EXTWARR811	1 year extended warranty for a total 4 years	$65.00
EXTWARR812	2 year extended warranty for a total 5 years	$93.00
EXTWARR813	3 year extended warranty for a total 6 years	$130.00
Antennas		
ANTENNA 1	118-940MHz mountable unity antenna, Field Tunable, 1/4 WAVE, CHR	$20.00
ANTENNA 2	144-174MHz 3dB gain mountable antenna, CHR, 59" high	$38.00
ANTENNA 3	450-470MHz 5dB gain mountable antenna, CHR, 40" high	$42.00
ANTENNA 4	152-162MHz 3dB Gain Mountable Gray 1/4 Wave 21.6"	$20.00
Cables		
OPC1132	DC power cable. Comes standard with most mobile radios (9.8ft) and has a 2-pin T connector	$45.00
OPC347	DC power cable (23ft)	$70.00
OPC617	Accesory cable for external terminal connection	$65.00
External Speakers		
SP22	5W small mobile rectangular external speaker (4Ohm)	$58.00
SP30	20W large external speaker	$110.00
SP35	5W external speaker with 3.5mm speaker jack and 2m cable	$60.00
Internal Modules		
INSTALLLM1234	Icom installation charge	$40.00
UT109 02	Non-rolling voice scrambler. Up to 32 codes available. Not compatible with radios using the UT-110.	$105.00
UT110 02	Rolling voice scrambler. Up to 1020 (255 codes x 4 groups) codes available.	$173.00
UT120 02	P25 Hardware Upgrade Board - Mobiles	$541.00
KVL		
KA KVL125	KVL unit powered by 9-volt battery	$3,185.00

F1721/F1821 - F2721/F2821 Series

High End Analog, P25 Mobiles

Accessories

Model	Description	MSRP
OPC-IAKVL1	Interface Cable with RJ45 Connector for P25 mobiles	$150.00
Manuals		
94414901	F1721/1821/2721/2821 CD service manual	$40.00
97714917	F1721/D & F1821/D service manual hardcopy	$40.00
98814877	F1721/D, F1821/D, F2721/D, F2821/D owner's manual	$12.00
Microphones		
HM148G	Self grounding microphone for mobile radios	$67.00
HM148T	DMTF mobile microphone	$110.00
HM152	Standard microphone for low/mid range mobile radios	$44.00
HM152T	DTMF modular microphone for LM mobile radios	$90.00
SM26	Desktop microphone with monitor switch for mobile radios	$90.00
Mounting Hardware		
F1721 MMB	Mounting bracket for F1721/F1821, F2721/2821, F9011S/T	$10.00
MOUNT 1	NMO Permanent Mount, 17ft RG58 cable, no connector	$23.00
MOUNT 2	Trunk Lid Mount/HD, BRKT, 45 DEG CBL, 58A/U PL259	$35.00
MOUNT 3	Black Magnetic Mount - 3 1/4" diameter, 12ft RG58 cable w/PL259 connector	$42.00
Power Supplies		
CONTROL STATION ASSEMBLE	Install mobile into power supply and cabinet to make control station	$0.00
ICT CS120-20A/IC06	110V power supply & cabinet for control station use on P25 radios	$230.00
ICT IC06 220V	220V power supply & cabinet for control station use on P25 radios	$255.00
Programming Software & Cables		
CSF70/F1700	Cloning Softwre F70/F80/F1721/F1821/F2721/F282	$72.00
OPC1122	PC to radio programming cloning cable for mobile radios with RC-232S connector.	$99.00
OPC1122U	PC to radio programming cloning cable for mobile radios with USB connector.	$99.00
OPC1532	Radio to radio cloning cable between P25 mobile radios	$42.00
OPC1533	Radio to radio cloning cable between F1721/2721/D series mobiles & F70/80/D portable radios	$88.00
OPC1534	Key Loader cable connects KVL3000Plus cable to Radio. For portables: requires OPC-1871 & RJ45 to RJ45 female-female modular adapter part#5610000510	$225.00
PROGLM6789	Icom to program your radio or IAS product	$70.00
RedHawk		
IAS BC-RHADPTR	100-240V charger adapter for use with the IAS OPC-RHUSB	$70.00
IAS BC-RHCHG1	100-240V single unit charger for RedHawk mic	$105.00
IAS BC-RHCHG12	100-240V 12 unit charger for the RedHawk mics	$1,000.00
IAS BP-RHBATT1	3.8V 1200mAh battery for RedHawk mic	$45.00
IAS CP-RHLP	12-24V cigarette lighter plug requiring 2 USB cables	$60.00
IAS CS-RHSW	Utility software to upload stored tracks, optional PC programming, online demos. One per customer needed.	$120.00
IAS OPC-RHI1D	RedHawk cable connects GPS mic to P25 mobile radios (works in both analog and P25 digital)	$225.00
IAS OPC-RHUSB	USB cable to connect mic with PC or charger adapter. One comes with each microphone.	$30.00
IAS REDHAWK	Speaker microhpone with GPS receiver. LCD display shows basic orientation of all members within a group. Battery & USB cable included. Cable that hooks from microphone to radio is required.	$584.00

F1721/F1821 - F2721/F2821 Series

High End Analog, P25 Mobiles

Accessories

Model	Description	MSRP
Remote Mounting		
OPC607	3m/9.8ft separation cable for remote mounting kits	$57.00
OPC608	8m/26.2ft separation cable for remote mounting kits	$76.00
OPC609	1.9m/6.2ft separation cable for remote mounting kits	$55.00
OPC726	5m/16.4ft separation cable for remote mounting kits	$65.00
RMK2	F1721/1821 bracket & face plate for remote mounting. Separation cable not included	$145.00

F9511 - F9521 Series

P25 Trunking Mobiles

SPECS

Frequencies:	136-174, 400-470, 450-512MHz
Output Power:	50W or 110W (VHF), 50W (UHF)
Channels:	512 / 128 zones
Channel Spacing:	15/30 (analog), 12.5kHz (digital)
PLL Channel Spacing:	2.5, 3.125kHz
LCD Display:	Dot matrix, switchable 1 line with 12 characters or 2 lines with 24 characters
Programmable Keys:	5 (simple version) or 7 (10-key version)
Waterproof Rating:	IP54 dust-protection and splash proof (controller only)
Mil Spec:	810 C, D, E
Scan:	Normal, priority & dual priority

FEATURES

P25 Conventional & Trunking
Digital/analog mixed mode operation
100 individual ID and 250 talkgroup ID memories
DVSI's AMBE+2™ vocoder
OTAR (Over-the-air-rekeying) with UT-125 board installed
Detachable front panel
Programmable ACC port for external control, dimmer and horn control
Dual head capable with 110W version (RMK4)
Tactical group function
22W PA function with BTL amplifier
RX speaker functions
Programmable accessory connector
Scan settings – dual priority, mode dependent, talk back and more
Built-in audio compander (analog only)
Radio stun/kill function (P25 digital only)

Compliant Standards:

- TIA/EIA TSB 102. CAAB compliant
- NTIA VHF specification compliant
- FIPS 140-2 (level 1) certified AES encryption

COMES WITH

Microphone (HM-148G)
Mounting bracket
Power cable
External Speaker (SP-22) w/ F9511T only, F9511HT speaker sold separately
Owner's manual
Warranty: 3 years

ENCRYPTION

AES: UT-125 (AES, DES & OTAR)
DES: UT-128

SIGNALING

CTCSS/DTCS encorder & decoder (analog only)
2 Tone endocder & decoder (analog only)
MDC1200 (analog only)
DTMF audiodial (analog only)

F9511 - F9521 Series

P25 Trunking Mobiles

Configurations

Model	Description	MSRP
F9511HT 01	136-174MHz 110W P25 Trunking mobile with full keypad. No external speaker included - must be ordered separately	$3,050.00
F9511S 01	136-174MHz P25 Trunking 50W mobile with no keypad	$2,060.00
F9511T 05	136-174MHz P25 Trunking 50W mobile with keypad	$2,160.00
F9521S 01	400-470MHz 45W P25 Trunking mobile, no keypad	$2,060.00
F9521T 05	400-470MHz mobile with full keypad	$2,160.00
F9521S 11	450-512MHz 45W P25 Trunking mobile, no keypad	$2,060.00
F9521T 15	450-512MHz mobile with full keypad	$2,160.00

Accessories

Model	Description	MSRP
EXTWARR811	1 year extended warranty for a total 4 years	$65.00
EXTWARR812	2 year extended warranty for a total 5 years	$93.00
EXTWARR813	3 year extended warranty for a total 6 years	$130.00
Antennas		
ANTENNA 1	118-940MHz mountable unity antenna, Field Tunable, 1/4 WAVE, CHR	$20.00
ANTENNA 2	144-174MHz 3dB gain mountable antenna, CHR, 59" high	$38.00
ANTENNA 3	450-470MHz 5dB gain mountable antenna, CHR, 40" high	$42.00
ANTENNA 4	152-162MHz 3dB Gain Mountable Gray 1/4 Wave 21.6"	$20.00
Cables		
OPC1132	DC power cable. Comes standard with most mobile radios (9.8ft) and has a 2-pin T connector	$45.00
OPC347	DC power cable (23ft)	$70.00
External Speakers		
SP22	5W small mobile rectangular external speaker (4Ohm)	$58.00
SP30	20W large external speaker	$110.00
SP35	5W external speaker with 3.5mm speaker jack and 2m cable	$60.00
Internal Modules		
INSTALLLM1234	Icom installation charge	$40.00
UT125 01	AES/DES encryption board with OTAR compliance for P25 Trunking radios	$695.00
UT125 FIPS	AES/DES/FIPS encryption board with OTAR compliance for P25 Trunking radios	$789.00
UT128	DES encryption for P25 Trunking radios	$420.00
KVL		
KA KVL125	KVL unit powered by 9-volt battery	$3,185.00
OPC-IAKVL1	Interface Cable with RJ45 Connector for P25 mobiles	$150.00
Manuals		
94415436	F9511 CD service manual	$40.00
97715423	F9511 service manual - hardcopy	$40.00
Microphones		
HM148G	Self grounding microphone for mobile radios	$67.00
HM148T	DMTF mobile microphone	$110.00
SM26	Desktop microphone with monitor switch for mobile radios	$90.00

F9511 - F9521 Series

P25 Trunking Mobiles

Accessories

Model	Description	MSRP
Mounting Hardware		
MOUNT 1	NMO Permanent Mount, 17ft RG58 cable, no connector	$23.00
MOUNT 2	Trunk Lid Mount/HD, BRKT, 45 DEG CBL, 58A/U PL259	$35.00
MOUNT 3	Black Magnetic Mount - 3 1/4" diameter, 12ft RG58 cable w/PL259 connector	$42.00
Power Supplies		
CONTROL STATION ASSEMBLE	Install mobile into power supply and cabinet to make control station	$0.00
ICT CS120-20A/IC06	110V power supply & cabinet for control station use on P25 radios	$230.00
ICT CS120-30A/IC08	110V power supply and cabinet for control station use for F9511HT	$700.00
ICT IC06 220V	220V power supply & cabinet for control station use on P25 radios	$255.00
Programming Software & Cables		
CSF9010/F9510	F9011/9511 programming software	$72.00
CSRMK4	Programming software for the RMK4	$80.00
OPC1122	PC to radio programming cloning cable for mobile radios with RC-232S connector.	$99.00
OPC1122U	PC to radio programming cloning cable for mobile radios with USB connector.	$99.00
OPC1534	Key Loader cable connects KVL3000Plus cable to Radio. For portables: requires OPC-1871 & RJ45 to RJ45 female-female modular adapter part#5610000510	$225.00
OPC1871	Radio to radio cloning cable between 14-pin connector portable & mobile radio	$110.00
PROGLM1234	Icom to program your radio or IAS product	$42.00
PROGLM6789	Icom to program your radio or IAS product	$70.00
RedHawk		
IAS BC-RHADPTR	100-240V charger adapter for use with the IAS OPC-RHUSB	$70.00
IAS BC-RHCHG1	100-240V single unit charger for RedHawk mic	$105.00
IAS BC-RHCHG12	100-240V 12 unit charger for the RedHawk mics	$1,000.00
IAS BP-RHBATT1	3.8V 1200mAh battery for RedHawk mic	$45.00
IAS CP-RHLP	12-24V cigarette lighter plug requiring 2 USB cables	$60.00
IAS CS-RHSW	Utility software to upload stored tracks, optional PC programming, online demos. One per customer needed.	$120.00
IAS OPC-RHI1D	RedHawk cable connects GPS mic to P25 mobile radios (works in both analog and P25 digital)	$225.00
IAS OPC-RHUSB	USB cable to connect mic with PC or charger adapter. One comes with each microphone.	$30.00
IAS REDHAWK	Speaker microhpone with GPS receiver. LCD display shows basic orientation of all members within a group. Battery & USB cable included. Cable that hooks from microphone to radio is required.	$584.00
Remote Mounting		
OPC607	3m/9.8ft separation cable for remote mounting kits	$57.00
OPC608	8m/26.2ft separation cable for remote mounting kits	$76.00
OPC609	1.9m/6.2ft separation cable for remote mounting kits	$55.00
OPC726	5m/16.4ft separation cable for remote mounting kits	$65.00
RMK2	F1721/1821 bracket & face plate for remote mounting. Separation cable not included	$145.00
RMK4 01	Dual head and separation kit for F9511HT. Requires external speaker and cable.	$860.00

F8101

HF Transceiver

SPECS

Frequencies:	Receive 0.5-29.9999MHz Transmit 1.6-29.9999MHz
Number of Channels:	500 channels
Type of Emission:	J3E, A3E, A1A, F1B, J2B
Output Power:	125W
Mil Spec:	MIL 810 C, D, E, F, G
Dimensions:	6.85x2.44x10.2 in (Controller attached)
Weight:	8.6lb (Controller attached type)

FEATURES

ALE (Automatic Link Establishment)
Selective calling
Compact and durable
BITE (Built-in Test Equipment) Function
User friendly operation
Clear talk function
Mute functions
Digital Signal Processor (DSP)
GPS receiver connection
Data Communications
USB Port for PC connection

COMES WITH

RF unit with controller head
Microphone (HM-193)
Microphone hanger kit
External speaker (SP-35L)
DC power cable
Spare fuses
Owner's manual
Warranty: 2 years

Meets MIL-STD 810

IP54 DUST PROTECTION & SPLASH PROOF

F8101

HF Transceiver

Configurations

Model	Description	MSRP
F8101 03	HF 125W transceiver with ALE (automatic link establishment)	$3,750.00

Accessories

Model	Description	MSRP
Antenna Tuners		
AH-5NV	Fiberglass antenna element (14.8ft) for short range communication	$1,490.00
AH740	Relay-driven compact automatic tuning antenna 1.6MHz-29.999MHz	$2,500.00
AT140	HF automatic antenna tuner.	$710.00
MN100L	Antenna matcher. Matches the transceiver to a long wire antenna. Covers all HF bands from 1.5 to 30mhz. One 15m antenna comes standard.	$455.00
Antennas		
AH760	1.6MHz–29.999MHz heavy-duty moving coil automatic tuning antenna	$3,595.00
Cables		
OPC2308	GPS/External modem connection cable	$175.00
OPC2309	Antenna tuner control cable for AT-140/AH-740/AH-760 for F8101 (10M or 32.8ft)	$170.00
External Speakers		
SP30	20W large external speaker	$110.00
SP35	5W external speaker with 3.5mm speaker jack and 2m cable	$60.00
Microphones		
HM192	Remote control microphone for F8101	$640.00
HM193	Hand microphone for the F8101	$85.00
Miscellaneous		
CFUF8100	Cooling fan unit	$440.00
Mounting Hardware		
MB126	Mounting bracket for F8101	$300.00
Programming Software & Cables		
CSF8101	F8101 programming software	$80.00
OPC2204	Cloning cable F8101	$200.00
PROGLM6789	Icom to program your radio or IAS product	$70.00
Remote Mounting		
OPC607	3m/9.8ft separation cable for remote mounting kits	$57.00
OPC608	8m/26.2ft separation cable for remote mounting kits	$76.00
OPC609	1.9m/6.2ft separation cable for remote mounting kits	$55.00
OPC726	5m/16.4ft separation cable for remote mounting kits	$65.00
RMK6	Remote mount kit for the F8101. Separation cable sold separately.	$360.00

Discontinued Radios

F3021 – F4021 Series

The F3021-F4021 portables are discontinued and no longer available from Icom. Icom does still sell the below compatible accessories.

SPECS

Frequencies:	136-174, 400-470, 450-512MHz
Output Power:	5W (VHF); 4W (UHF)
Channels:	128 / 8 zones
Channel Spacing:	12.5kHz
LCD Display:	8 character alphanumeric
Programmable Keys:	8
Mil Spec:	810 C, D, E
Scan:	Normal & priority
Weight:	VHF 10.6oz (with BP-232H) UHF 11.3oz (with BP-232H)
Waterproof Rating:	IP54 dust and splash proof

FEATURES

TOT function & lock out penalty timer
2-step power save
Surveillance function; temporary LED blackout
Lone worker function
Mode dependent scan
Man down: UT-124R

SIGNALING

CTCSS / DTCS, DTMF Encode
DTMF Decode: UT-108R
2/5 Tone Encode/Decode

- Up to 10 2-tone codes can be decoded on a channel
- Up to 8 5-tone codes can be decoded on a channel
- Programmable items for codes: Beep sound, Answer back, Scan, Bell icon, Radio stun/kill

MDC1200

- PTT ID (Tx/Rx)
- Emergency (Tx/Rx)
- Radio check (Rx)
- Stun/revive (Rx)
- 5 alias table

COMES WITH

Antenna (FA-SC55V or FA-SC57U)
Battery (BP-232H)
Belt Clip (MB-94)
Owner's manual
Warranty: 2 years

ENCRYPTION

Simple Inversion: UT-109R 32 Codes
Rolling Code: UT-110R 1020 Codes

IP54 DUST PROTECTION & SPLASH PROOF
Meets MIL-STD 810
OTTO ACCESSORIES AVAILABLE
MDC 1200 Compatible

F3021 – F4021 Series

The F3021-F4021 portables are discontinued and no longer available from Icom. Icom does still sell the below compatible accessories.

Accessories

Model	Description	MSRP
EXTWARR211	1 year extended warranty for a total 3 years	$25.00
EXTWARR212	2 year extended warranty for a total 4 years	$44.00
EXTWARR213	3 year extended warranty for a total 5 years	$62.00
Antennas		
CEN EXD 400 MXI	400-430MHz stubby antenna for land mobile portable radios	$14.50
FASC25U	400-430MHz antenna for LM portables	$13.00
FASC25V	136-150MHz antenna for LM portables	$13.00
FASC55V	146-174MHz standard antenna for LM portables	$13.00
FASC56VS	150-160MHz stubby antenna for LM portables	$14.50
FASC57U	440-470MHz standard antenna for LM radios (red ring)	$13.00
FASC57VS	160-174MHz stubby antenna for LM portables	$14.50
FASC61UC	380-520MHz cut antenna for the specific frequency desired	$16.00
FASC61VC	136-174MHz cut antenna for the specific frequency desired	$16.00
FASC62V	150-160MHz high gain antenna for LM portables (10")	$55.00
FASC63V	155-165MHz high gain antenna for LM portables (9.5")	$55.00
FASC72U	470-512MHz antenna for LM portables	$13.00
FASC73US	450-470MHz stubby antenna for LM portable radios	$14.50
LAIRD EXH 160 MXI	155-160MHz antenna	$26.00
LARSEN SPHL10160IC	155-160MHz antenna	$26.00
Batteries		
BP232H	Li-ion 7.4V 2300mAh (typical capacity), 2250mAh (minimum value)	$75.00
BP240	Battery case that holds 6 AAA alkaline batteries (1W output power)	$35.00
Belt Clips		
AW STUD	Metal stud that slides on where the belt clip goes. Requires AW Swivel	$12.00
AW STUD/SWIVEL KIT	Metal stud that slides on like a belt clip and it's attached to a strong metal swivel belt clip	$21.00
AW SWIVEL	Swivel clip used with the AW Stud/Swivel Kit.	$13.00
MB93	Swivel belt clip	$11.00
MB94	Alligator belt clip	$10.50
MB94R	Alligator belt clip with long clip that angles the antenna/top of radio off the body	$18.00
MB96F	Leather belt hanger. Use with the MB103/Y, MB94 or MB98.	$35.00
MB96N	Swivel belt hanger. Use with the MB103/Y, MB94 or MB98.	$37.00
Cables		
OPC515L	DC power cable for single unit rapid chargers	$26.00
OPC656	DC power cable for BC121N or BC197 gang chargers	$12.00
Carrying Cases		
LCF3021S CLIP	Leather carrying case with a clip and cutout for the display	$45.00
LCF3021S LOOP	Leather carrying case with a loop and cutout for the display	$38.00
LCF3021S SWIVEL	Leather carrying case with a metal swivel clip and cutout for the display	$50.00
LCF3021T CLIP	Leather carrying case with a clip and cutout for display and keypad	$45.00
LCF3021T SWIVEL	Leather carrying case with a metal swivel clip and cutout for display and keypad	$50.00
NCF3021S CLIP	Nylon carrying case with a clip and cutout for the display	$27.00

F3021 – F4021 Series

The F3021-F4021 portables are discontinued and no longer available from Icom. Icom does still sell the below compatible accessories.

Accessories

Model	Description	MSRP
NCF3021S LOOP	Nylon carrying case with a loop and cutout for the display	$25.00
NCF3021T CLIP	Nylon carrying case with a clip and cutout for the display and keypad	$27.00
Chargers		
AD106	Adapter cup to install in the BC119N or BC121N for the radios with the BP232N/H battery	$28.00
AD122	Adapter cup that fits into the BC197 22/23 for the BP232N/H batteries	$23.00
BC119N 01	110V rapid charger - requires radio specific adapter cup(not CEC compatible for Amateur/Marine radios)	$75.00
BC119N 02	220V rapid charger - requires radio specific adapter cup	$76.00
BC121N	6 unit multi-charger; requires radio specific adapter cups & BC157 AC adapter	$305.00
BC121N AD106 220V KIT	6 unit 220V gang charger kit BC121N + BC157S 09 + AD106 x 6	$593.00
BC121N AD106 KIT	6 unit 117V gang charger kit BC121N + BC157S 07 + AD106 x 6	$593.00
BC145SA 31	110V AC adapter for rapid chargers	$25.00
BC145SE 32	220V AC adapter for rapid chargers	$25.00
BC147SA 14	110-240V AC adapter for trickle chargers with a US plug	$15.00
BC147SE 15	230V AC adapter for trickle chargers with a European plug	$16.00
BC157S	110V power supply for 6 bank gang chargers	$120.00
BC157S 220V	220V power supply for the 6 bank gang chargers	$126.00
BC160	Rapid charger with a US plug for radios with the BP230/231/232 batteries	$67.00
BC160E	Rapid charger with European plug for radios with the BP230/231/232 batteries	$67.00
BC171 01	110V drop-in trickle charger for radios with the BP230/231/232 batteries	$47.00
BC171 02	220V drop-in trickle charger for radios with the BP230/231/232 batteries	$45.00
BC197 22	110V six unit charger for radios with the BP232N/H Li-Ion battery (includes AC adapter and cups installed)	$510.00
BC197 23	220V 6 unit charger for radios with the BP232N/H Li-Ion battery (includes AC adapter and cups installed)	$510.00
CP17L	12V cigarette lighter cable for use with BC-119N/BC-160	$30.00
CP23L	12V cigarette lighter cable for use with BC-119N/160/191/193/213	$35.00
IA-TC100B	Travel charger piece the BC-160/BC-171 fits into. Req CP1/CP17L or OPC515L	$45.00
MB130	Vehicle charger bracket designed to hold a rapid charger allowing battery to charge while in a vehicle. Requires charger & CP17L. Will not work with the BC119N.	$83.00
Headsets		
HS94	Earpiece headset; use with VS1/OPC2004/OPC2006/OPC1392	$25.00
HS95	Headset with boom mic; use with VS1/OPC2004/OPC2006/OPC1392	$215.00
HS97	Earphone with throat mic headset; use with VS1/OPC2004/OPC2006/OPC1392	$42.00
OTTO V110519	Barrel PTT - connects to headsets with pigtail	$120.00
OTTO V410395	Behind-the-head style, noise attenuating headset (2-pin right angle connector)	$360.00
OTTO V410480	Over the head style w/ NC Boom Mic, in-line ptt (2-pin screw down connector)	$350.00
OTTO V4BA2CS1	Breeze behind-the-head headset, single speaker with left boom mic with 2-pin right angle screw down connector	$107.00
OTTO V4EX2CC5	Explorer lightweight headset with flexible earloop w/boom mic (2-pin right angle connector)	$90.00
OTTO V4EX2CS5	Explorer lightweight headset with flexible earloop w/boom mic (2-pin right angle screw down connector)	$145.00
VS1L	VOX/PTT case with 2-pin right angle connector. Must use with HS94/HS95/HS97	$44.00

F3021 – F4021 Series

The F3021-F4021 portables are discontinued and no longer available from Icom. Icom does still sell the below compatible accessories.

Accessories

Model	Description	MSRP
Internal Modules		
INSTALLLM1234	Icom installation charge	$40.00
UT108R	DTMF decoder, ANI unit	$39.00
UT109R 21	Non-rolling voice scrambler. Up to 32 codes available. Not compatible with radios using the UT-110.	$105.00
UT110R 21	Rolling voice scrambler. Up to 1020 (255 codes x 4 groups) codes available. Works only in analog mode.	$173.00
UT124R 02	Man down unit	$90.00
Manuals		
94415195	F3021/F4021 CD service manual	$40.00
97715148	F3021 service manual - hardcopy	$40.00
97715171	F4021 service manual - hardcopy	$40.00
98815180	F3021/4021 owner's manual	$12.00
Microphones		
HM158LA	Compact speaker microphone with revolving clip and earphone jack (right angle 2-pin screw down connector, stereo mic/mono speaker)	$47.00
HM159LA	Large speaker microphone with earphone jack and metal alligator clip (right angle 2-pin screw down connector, stereo mic/mono speaker)	$77.00
HM-HD7I7WP	Large waterproof speaker microphone with 3.5mm accessory jack (right angle 2-pin screw down connector)	$110.00
IMPACT HD3-I3	Heavy duty speaker mic w/3.5mm accessory jack (2-pin screw down connector)	$59.00
OTTO V110282	Speaker mic earpiece(2.5mm straight plug)	$50.00
OTTO V110432	Speaker mic earpiece (2.5mm right angle plug)	$60.00
OTTO V110433	Speaker mic earpiece (3.5mm right angle plug)	$60.00
OTTO V210200	Evolution heavy duty mic with hi/lo volume switch, 2.5mm earphone jack and 2-pin right angle connector	$93.00
OTTO V210288	Evolution heavy duty mic with hi/lo volume switch, 2.5mm earphone jack and 2-pin right angle screw down connector	$113.00
OTTO V2C2CS11	Legacy speaker microphone (2-pin screw down connector)	$48.00
OTTO V2L2CC11	Profile speaker mic with 2-pin right angle connector	$88.00
OTTO V2L2CS11	Profile speaker mic with 2.5mm earphone jack and 2-pin right angle screw down connector	$93.00
SP13	Earphone for speaker mics/handhelds	$5.00
Programming Software & Cables		
CSF3021/F5021/F5011	F3021/5021/5011 series programming software	$72.00
OPC478	PC to handheld programming cable with RS-232S connector for radios with 2-pin connectors	$60.00
OPC478UC	PC to handheld programming cable with USB connector for radios with 2-pin connectors	$70.00
PROGLM1234	Icom to program your radio or IAS product	$42.00
RedHawk		
IAS BC-RHADPTR	100-240V charger adapter for use with the IAS OPC-RHUSB	$70.00
IAS BC-RHCHG1	100-240V single unit charger for RedHawk mic	$105.00
IAS BC-RHCHG12	100-240V 12 unit charger for the RedHawk mics	$1,000.00
IAS BP-RHBATT1	3.8V 1200mAh battery for RedHawk mic	$45.00
IAS CP-RHLP	12-24V cigarette lighter plug requiring 2 USB cables	$60.00

F3021 – F4021 Series

The F3021-F4021 portables are discontinued and no longer available from Icom. Icom does still sell the below compatible accessories.

Accessories

Model	Description	MSRP
IAS CS-RHSW	Utility software to upload stored tracks, optional PC programming, online demos. One per customer needed.	$120.00
IAS OPC-RHI2	RedHawk 2-pin cable connects GPS mic to radio	$93.00
IAS OPC-RHUSB	USB cable to connect mic with PC or charger adapter. One comes with each microphone.	$30.00
IAS REDHAWK	Speaker microhpone with GPS receiver. LCD display shows basic orientation of all members within a group. Battery & USB cable included. Cable that hooks from microphone to radio is required.	$584.00
Wire Kits		
HM153LA	Covert durable microphone with earphone combination (right angle 2-pin screw down connector)	$125.00
HM166LA	Earphone microphone with 2-pin right angle connector	$53.00
OTTO E1EB2CC131	1-wire kit with earbud and in-line mic with 2-pin right angle connector	$10.00
OTTO E1ET2CS131	2-wire D-hanger with in line mic/ptt with 2-pin right angle connector	$32.00
OTTO V110756	2-Wire palm mic kit with 2-pin right angle screw down connector	$98.00
OTTO V1T12CS117	Throat mic system w/acoustic tube ear piece and 80mm body PTT with right angle 2-pin right angle connector	$595.00

F11 – F21 & F33G – F43G Series

The F11/21 & F33G/43G portables are discontinued and no longer available from Icom. Icom does still sell the below compatible accessories.

Accessories

Model	Description	MSRP
Antennas		
AD98FSC	Antenna connector adapter for "J" to "BNC" conversion	$22.00
FASC25V	136-150MHz antenna for LM portables	$13.00
FASC55V	146-174MHz standard antenna for LM portables	$13.00
FASC56VS	150-160MHz stubby antenna for LM portables	$14.50
FASC57U	440-470MHz standard antenna for LM radios (red ring)	$13.00
FASC57VS	160-174MHz stubby antenna for LM portables	$14.50
FASC61UC	380-520MHz cut antenna for the specific frequency desired	$16.00
FASC61VC	136-174MHz cut antenna for the specific frequency desired	$16.00
FASC62V	150-160MHz high gain antenna for LM portables (10")	$55.00
FASC63V	155-165MHz high gain antenna for LM portables (9.5")	$55.00
FASC72U	470-512MHz antenna for LM portables	$13.00
FASC73US	450-470MHz stubby antenna for LM portable radios	$14.50
LAIRD EXH 160 MXI	155-160MHz antenna	$26.00
LARSEN SPHL10160IC	155-160MHz antenna	$26.00
Batteries		
BP208N	Battery case that holds 6 AA alkaline batteries.	$22.00
BP210N	NiMH 7.2V 1650mAh battery	$75.00
BP232H	Li-ion 7.4V 2300mAh (typical capacity), 2250mAh (minimum value)	$75.00
BP240	Battery case that holds 6 AAA alkaline batteries (1W output power)	$35.00
Belt Clips		
AW STUD	Metal stud that slides on where the belt clip goes. Requires AW Swivel	$12.00
AW STUD/SWIVEL KIT	Metal stud that slides on like a belt clip and it's attached to a strong metal swivel belt clip	$21.00
AW SWIVEL	Swivel clip used with the AW Stud/Swivel Kit.	$13.00
MB103	Alligator belt clip	$12.50
MB74N	Alligator Clip for BP209 & BP210 (non N version batteries)	$12.00
MB86	Swivel belt clip that screws into back of radio	$11.00
MB87	Swivel belt clip	$10.00
MB93	Swivel belt clip	$11.00
MB94	Alligator belt clip	$10.50
MB94R	Alligator belt clip with long clip that angles the antenna/top of radio off the body	$18.00
MB96F	Leather belt hanger. Use with the MB103/Y, MB94 or MB98.	$35.00
MB96N	Swivel belt hanger. Use with the MB103/Y, MB94 or MB98.	$37.00
SPRING CLIP L	Long spring clip insert length 3.5 inches	$5.00
SPRING CLIP S	Short spring clip insert length 2.5 inches	$5.00
Cables		
OPC515L	DC power cable for single unit rapid chargers	$26.00
OPC656	DC power cable for BC121N or BC197 gang chargers	$12.00
Carrying Cases		
LCF21 CLIP	Leather carrying case with a clip F11/21 radios	$45.00

F11 – F21 & F33G – F43G Series

The F11/21 & F33G/43G portables are discontinued and no longer available from Icom. Icom does still sell the below compatible accessories.

Accessories

Model	Description	MSRP
LCF33 SWIVEL	Leather carrying case with a swivel loop and cutout for the display	$50.00
NCF21 LOOP	Nylon carrying case with a loop F11/21 radios	$25.00
Chargers		
AD101	Adapter cup to install in the BC119N or BC121N for the BP210N & BP211 batteries	$28.00
AD106	Adapter cup to install in the BC119N or BC121N for the radios with the BP232N/H battery	$28.00
AD122	Adapter cup that fits into the BC197 22/23 for the BP232N/H batteries	$23.00
AD94 11	Adapter cup installs in the BC119N or BC121N for the BP209N & BP210N batteries	$28.00
AD99N	Spacer for the AD94 adapter cup	$6.40
BC119N 01	110V rapid charger - requires radio specific adapter cup(not CEC compatible for Amateur/Marine radios)	$75.00
BC119N 02	220V rapid charger - requires radio specific adapter cup	$76.00
BC121N	6 unit multi-charger; requires radio specific adapter cups & BC157 AC adapter	$305.00
BC121N AD106 220V KIT	6 unit 220V gang charger kit BC121N + BC157S 09 + AD106 x 6	$593.00
BC121N AD106 KIT	6 unit 117V gang charger kit BC121N + BC157S 07 + AD106 x 6	$593.00
BC144N 51	117V rapid charger F11/21/3G/4G/30G/40G series	$66.00
BC144N 52	220V rapid charger F11/21/3G/4G/30G/40G series	$75.00
BC145SA 31	110V AC adapter for rapid chargers	$25.00
BC145SE 32	220V AC adapter for rapid chargers	$25.00
BC146 01	Drop-in trickle charger base for the F11/21/3G/4G/30G/40G series. Requires BC147 AC adapter.	$32.00
BC147SA 14	110-240V AC adapter for trickle chargers with a US plug	$15.00
BC147SE 15	230V AC adapter for trickle chargers with a European plug	$16.00
BC157S	110V power supply for 6 bank gang chargers	$120.00
BC157S 220V	220V power supply for the 6 bank gang chargers	$126.00
BC160	Rapid charger with a US plug for radios with the BP230/231/232 batteries	$67.00
BC160E	Rapid charger with European plug for radios with the BP230/231/232 batteries	$67.00
BC171 01	110V drop-in trickle charger for radios with the BP230/231/232 batteries	$47.00
BC171 02	220V drop-in trickle charger for radios with the BP230/231/232 batteries	$45.00
BC197 22	110V six unit charger for radios with the BP232N/H Li-Ion battery (includes AC adapter and cups installed)	$510.00
BC197 23	220V 6 unit charger for radios with the BP232N/H Li-Ion battery (includes AC adapter and cups installed)	$510.00
CP17L	12V cigarette lighter cable for use with BC-119N/BC-160	$30.00
CP23L	12V cigarette lighter cable for use with BC-119N/160/191/193/213	$35.00
Headsets		
HS94	Earpiece headset; use with VS1/OPC2004/OPC2006/OPC1392	$25.00
HS95	Headset with boom mic; use with VS1/OPC2004/OPC2006/OPC1392	$215.00
HS97	Earphone with throat mic headset; use with VS1/OPC2004/OPC2006/OPC1392	$42.00
OTTO V410479	Lightweight single speaker headset (2-pin screw down connector)	$121.00
OTTO V410480	Over the head style w/ NC Boom Mic, in-line ptt (2-pin screw down connector)	$350.00
OTTO V4BA2CS1	Breeze behind-the-head headset, single speaker with left boom mic with 2-pin right angle screw down connector	$107.00
OTTO V4EX2CC5	Explorer lightweight headset with flexible earloop w/boom mic (2-pin right angle connector)	$90.00
OTTO V4EX2CS5	Explorer lightweight headset with flexible earloop w/boom mic (2-pin right angle screw down connector)	$145.00

F11 – F21 & F33G – F43G Series

The F11/21 & F33G/43G portables are discontinued and no longer available from Icom. Icom does still sell the below compatible accessories.

Accessories

Model	Description	MSRP
VS1L	VOX/PTT case with 2-pin right angle connector. Must use with HS94/HS95/HS97	$44.00
Internal Modules		
UT108	DTMF decoder and ANI board	$39.00
UT109 02	Non-rolling voice scrambler. Up to 32 codes available. Not compatible with radios using the UT-110.	$105.00
UT110 02	Rolling voice scrambler. Up to 1020 (255 codes x 4 groups) codes available.	$173.00
UT124 01	Man down unit	$90.00
Manuals		
94414314	F11/F11S/F21/F21S CD service manual	$40.00
94414894	F33G/F43G CD service manual	$40.00
97713705	F21/F21S service manual hardcopy	$40.00
97713930	F11/F11S service manual hardcopy	$40.00
97714843	F43GS/GT service manual hardcopy	$40.00
97714895	F33GS/GT service manual hardcopy	$40.00
98813703	F11/F11S & F21/F21S owner's manual	$12.00
98814817	F43GS/GT owner's manual	$12.00
Microphones		
HM158LA	Compact speaker microphone with revolving clip and earphone jack (right angle 2-pin screw down connector, stereo mic/mono speaker)	$47.00
HM159LA	Large speaker microphone with earphone jack and metal alligator clip (right angle 2-pin screw down connector, stereo mic/mono speaker)	$77.00
HM-HD7I7WP	Large waterproof speaker microphone with 3.5mm accessory jack (right angle 2-pin screw down connector)	$110.00
KLEIN SCORPION	Listen Only earloop/earbud that plugs into speaker microphone	$17.00
OTTO V110432	Speaker mic earpiece (2.5mm right angle plug)	$60.00
OTTO V210288	Evolution heavy duty mic with hi/lo volume switch, 2.5mm earphone jack and 2-pin right angle screw down connector	$113.00
OTTO V2C2CS11	Legacy speaker microphone (2-pin screw down connector)	$48.00
OTTO V2L2CC11	Profile speaker mic with 2-pin right angle connector	$88.00
OTTO V2L2CS11	Profile speaker mic with 2.5mm earphone jack and 2-pin right angle screw down connector	$93.00
SP13	Earphone for speaker mics/handhelds	$5.00
Programming Software & Cables		
CSF11	F11/F21 Program Sftwre	$72.00
CSF33G	F33G/F43G Prg Software	$72.00
OPC474	Radio to radio cloning cable (3.5mm to 3.5mm)	$20.00
OPC478	PC to handheld programming cable with RS-232S connector for radios with 2-pin connectors	$60.00
OPC478UC	PC to handheld programming cable with USB connector for radios with 2-pin connectors	$70.00
Wire Kits		
HM128L	Earphone/mic with 2-pin right angle connector	$28.50
HM153LA	Covert durable microphone with earphone combination (right angle 2-pin screw down connector)	$125.00
HM166LA	Earphone microphone with 2-pin right angle connector	$53.00
OTTO E1EB2CC131	1-wire kit with earbud and in-line mic with 2-pin right angle connector	$10.00

F11 – F21 & F33G – F43G Series

The F11/21 & F33G/43G portables are discontinued and no longer available from Icom. Icom does still sell the below compatible accessories.

Accessories

Model	Description	MSRP
OTTO E1ET2CS131	2-wire D-hanger with in line mic/ptt with 2-pin right angle connector	$32.00
OTTO V110756	2-Wire palm mic kit with 2-pin right angle screw down connector	$98.00
OTTO V1T12CS117	Throat mic system w/acoustic tube ear piece and 80mm body PTT with right angle 2-pin right angle connector	$595.00

F3/S – F4/S Series

The F3/S & F4/S portables are discontinued and no longer available from Icom. Icom does still sell the below compatible accessories.

Accessories

Model	Description	MSRP
Antennas		
FASC25U	400-430MHz antenna for LM portables	$13.00
FASC25V	136-150MHz antenna for LM portables	$13.00
FASC55V	146-174MHz standard antenna for LM portables	$13.00
FASC56VS	150-160MHz stubby antenna for LM portables	$14.50
FASC57U	440-470MHz standard antenna for LM radios (red ring)	$13.00
FASC57VS	160-174MHz stubby antenna for LM portables	$14.50
FASC73US	450-470MHz stubby antenna for LM portable radios	$14.50
Belt Clips		
MB74N	Alligator Clip for BP209 & BP210 (non N version batteries)	$12.00
MB87	Swivel belt clip	$10.00
SPRING CLIP L	Long spring clip insert length 3.5 inches	$5.00
SPRING CLIP S	Short spring clip insert length 2.5 inches	$5.00
Chargers		
BC119N 01	110V rapid charger - requires radio specific adapter cup(not CEC compatible for Amateur/Marine radios)	$75.00
BC119N 02	220V rapid charger - requires radio specific adapter cup	$76.00
BC121N	6 unit multi-charger; requires radio specific adapter cups & BC157 AC adapter	$305.00
BC122A	AC Adptr-Trickle Chrgr F3/F4/S/G/F11/F21/M1	$16.00
BC133	Drop-In trickle charger for the F3/F3S/F4/F4S/T2H/A4	$40.00
BC145SA 31	110V AC adapter for rapid chargers	$25.00
BC145SE 32	220V AC adapter for rapid chargers	$25.00
BC157S	110V power supply for 6 bank gang chargers	$120.00
BC157S 220V	220V power supply for the 6 bank gang chargers	$126.00
Internal Modules		
UT109 01	Non-rolling voice scrambler. Up to 32 codes available. Not compatible with radios using the UT-110.	$105.00
UT110 01	Rolling voice scrambler. Up to 1020 (255 codes x 4 groups) codes available.	$173.00
Manuals		
94412917	F3/F3S/F4/F4S CD service manual	$40.00
97712311	F3/F3S/F4/F4S service manual hardcopy	$40.00
98812456	F3/F3S/F4/F4S owner's manual	$12.00
Microphones		
HM131	Speaker/microphone with earphone jack and clip (straight 2-pin, both stereo plug)	$45.00
SP13	Earphone for speaker mics/handhelds	$5.00
Programming Software & Cables		
CSF3	F3/S/F4/S Program Sftwre	$40.00
OPC474	Radio to radio cloning cable (3.5mm to 3.5mm)	$20.00
OPC478	PC to handheld programming cable with RS-232S connector for radios with 2-pin connectors	$60.00
OPC478UC	PC to handheld programming cable with USB connector for radios with 2-pin connectors	$70.00

F3/S – F4/S Series

The F3/S & F4/S portables are discontinued and no longer available from Icom. Icom does still sell the below compatible accessories.

Accessories

Model	Description	MSRP
Wire Kits		
HM128	Earphone-microphone with 2-pin straight connector	$30.00
OTTO V110396	3-wire mini lapel mic kit (earphone/cable with mic/cable with barrel style PTT) with 2.5/3.5mm straight connector - F3/S/F4/S	$170.00

F43TR

The F43TR is discontinued and no longer available from Icom. Icom does still sell the below compatible accessories.

Accessories

Model	Description	MSRP
EXTWARR211	1 year extended warranty for a total 3 years	$25.00
EXTWARR212	2 year extended warranty for a total 4 years	$44.00
EXTWARR213	3 year extended warranty for a total 5 years	$62.00
Antennas		
CEN EXD 400 MXI	400-430MHz stubby antenna for land mobile portable radios	$14.50
FASC25U	400-430MHz antenna for LM portables	$13.00
FASC57U	440-470MHz standard antenna for LM radios (red ring)	$13.00
FASC61UC	380-520MHz cut antenna for the specific frequency desired	$16.00
FASC72U	470-512MHz antenna for LM portables	$13.00
FASC73US	450-470MHz stubby antenna for LM portable radios	$14.50
Batteries		
BP232H	Li-ion 7.4V 2300mAh (typical capacity), 2250mAh (minimum value)	$75.00
Belt Clips		
AW STUD/SWIVEL KIT	Metal stud that slides on like a belt clip and it's attached to a strong metal swivel belt clip	$21.00
MB93	Swivel belt clip	$11.00
MB94	Alligator belt clip	$10.50
MB94R	Alligator belt clip with long clip that angles the antenna/top of radio off the body	$18.00
MB96F	Leather belt hanger. Use with the MB103/Y, MB94 or MB98.	$35.00
MB96N	Swivel belt hanger. Use with the MB103/Y, MB94 or MB98.	$37.00
Cables		
OPC515L	DC power cable for single unit rapid chargers	$26.00
OPC656	DC power cable for BC121N or BC197 gang chargers	$12.00
Carrying Cases		
LCF33 SWIVEL	Leather carrying case with a swivel loop and cutout for the display	$50.00
Chargers		
AD106	Adapter cup to install in the BC119N or BC121N for the radios with the BP232N/H battery	$28.00
AD122	Adapter cup that fits into the BC197 22/23 for the BP232N/H batteries	$23.00
BC119N 01	110V rapid charger - requires radio specific adapter cup(not CEC compatible for Amateur/Marine radios)	$75.00
BC119N 02	220V rapid charger - requires radio specific adapter cup	$76.00
BC121N	6 unit multi-charger; requires radio specific adapter cups & BC157 AC adapter	$305.00
BC121N AD106 220V KIT	6 unit 220V gang charger kit BC121N + BC157S 09 + AD106 x 6	$593.00
BC121N AD106 KIT	6 unit 117V gang charger kit BC121N + BC157S 07 + AD106 x 6	$593.00
BC145SA 31	110V AC adapter for rapid chargers	$25.00
BC145SE 32	220V AC adapter for rapid chargers	$25.00
BC157S	110V power supply for 6 bank gang chargers	$120.00
BC157S 220V	220V power supply for the 6 bank gang chargers	$126.00
BC160	Rapid charger with a US plug for radios with the BP230/231/232 batteries	$67.00
BC160E	Rapid charger with European plug for radios with the BP230/231/232 batteries	$67.00
BC197 22	110V six unit charger for radios with the BP232N/H Li-Ion battery (includes AC adapter and cups	$510.00

F43TR

The F43TR is discontinued and no longer available from Icom. Icom does still sell the below compatible accessories.

Accessories

Model	Description	MSRP
	installed)	
BC197 23	220V 6 unit charger for radios with the BP232N/H Li-Ion battery (includes AC adapter and cups installed)	$510.00
CP17L	12V cigarette lighter cable for use with BC-119N/BC-160	$30.00
CP23L	12V cigarette lighter cable for use with BC-119N/160/191/193/213	$35.00
Headsets		
HS94	Earpiece headset; use with VS1/OPC2004/OPC2006/OPC1392	$25.00
HS95	Headset with boom mic; use with VS1/OPC2004/OPC2006/OPC1392	$215.00
HS97	Earphone with throat mic headset; use with VS1/OPC2004/OPC2006/OPC1392	$42.00
OTTO V110519	Barrel PTT - connects to headsets with pigtail	$120.00
OTTO V410479	Lightweight single speaker headset (2-pin screw down connector)	$121.00
OTTO V410480	Over the head style w/ NC Boom Mic, in-line ptt (2-pin screw down connector)	$350.00
OTTO V4BA2CS1	Breeze behind-the-head headset, single speaker with left boom mic with 2-pin right angle screw down connector	$107.00
OTTO V4EX2CS5	Explorer lightweight headset with flexible earloop w/boom mic (2-pin right angle screw down connector)	$145.00
VS1L	VOX/PTT case with 2-pin right angle connector. Must use with HS94/HS95/HS97	$44.00
Internal Modules		
INSTALLLM1234	Icom installation charge	$40.00
UT108	DTMF decoder and ANI board	$39.00
UT109 02	Non-rolling voice scrambler. Up to 32 codes available. Not compatible with radios using the UT-110.	$105.00
UT110 02	Rolling voice scrambler. Up to 1020 (255 codes x 4 groups) codes available.	$173.00
UT124 01	Man down unit	$90.00
Manuals		
94414815	F43TR CD service manual	$40.00
97714816	F43TR service manual hardcopy	$40.00
98815192	F43TR owner's manual	$12.00
Microphones		
HM158LA	Compact speaker microphone with revolving clip and earphone jack (right angle 2-pin screw down connector, stereo mic/mono speaker)	$47.00
HM159LA	Large speaker microphone with earphone jack and metal alligator clip (right angle 2-pin screw down connector, stereo mic/mono speaker)	$77.00
HM-HD7I7WP	Large waterproof speaker microphone with 3.5mm accessory jack (right angle 2-pin screw down connector)	$110.00
KLEIN SCORPION	Listen Only earloop/earbud that plugs into speaker microphone	$17.00
OTTO V110432	Speaker mic earpiece (2.5mm right angle plug)	$60.00
OTTO V110433	Speaker mic earpiece (3.5mm right angle plug)	$60.00
OTTO V210288	Evolution heavy duty mic with hi/lo volume switch, 2.5mm earphone jack and 2-pin right angle screw down connector	$113.00
OTTO V2C2CS11	Legacy speaker microphone (2-pin screw down connector)	$48.00
OTTO V2L2CS11	Profile speaker mic with 2.5mm earphone jack and 2-pin right angle screw down connector	$93.00
SP13	Earphone for speaker mics/handhelds	$5.00

F43TR

The F43TR is discontinued and no longer available from Icom. Icom does still sell the below compatible accessories.

Accessories

Model	Description	MSRP
Programming Software & Cables		
CSF43TR	F43TR Program Software	$72.00
OPC478	PC to handheld programming cable with RS-232S connector for radios with 2-pin connectors	$60.00
OPC478UC	PC to handheld programming cable with USB connector for radios with 2-pin connectors	$70.00
PROGLM1234	Icom to program your radio or IAS product	$42.00
Wire Kits		
HM128L	Earphone/mic with 2-pin right angle connector	$28.50
HM153LA	Covert durable microphone with earphone combination (right angle 2-pin screw down connector)	$125.00
HM166LA	Earphone microphone with 2-pin right angle connector	$53.00
OTTO E1EB2CC131	1-wire kit with earbud and in-line mic with 2-pin right angle connector	$10.00
OTTO E1ET2CS131	2-wire D-hanger with in line mic/ptt with 2-pin right angle connector	$32.00
OTTO V110756	2-Wire palm mic kit with 2-pin right angle screw down connector	$98.00
OTTO V1T12CS117	Throat mic system w/acoustic tube ear piece and 80mm body PTT with right angle 2-pin right angle connector	$595.00

F30G – F40G Series

The F30G & F40G portables are discontinued and no longer available from Icom. Icom does still sell the below compatible accessories.

Accessories

Model	Description	MSRP
Antennas		
AD98FSC	Antenna connector adapter for "J" to "BNC" conversion	$22.00
FASC25V	136-150MHz antenna for LM portables	$13.00
FASC55V	146-174MHz standard antenna for LM portables	$13.00
FASC56VS	150-160MHz stubby antenna for LM portables	$14.50
FASC57U	440-470MHz standard antenna for LM radios (red ring)	$13.00
FASC57VS	160-174MHz stubby antenna for LM portables	$14.50
FASC61UC	380-520MHz cut antenna for the specific frequency desired	$16.00
FASC61VC	136-174MHz cut antenna for the specific frequency desired	$16.00
FASC73US	450-470MHz stubby antenna for LM portable radios	$14.50
Batteries		
BP210N	NiMH 7.2V 1650mAh battery	$75.00
BP210N FM	Intrinsically safe NiMH 7.2V 1650mAh battery for F30G/F40G IS radios	$131.00
Belt Clips		
MB103	Alligator belt clip	$12.50
MB74N	Alligator Clip for BP209 & BP210 (non N version batteries)	$12.00
MB86	Swivel belt clip that screws into back of radio	$11.00
MB87	Swivel belt clip	$10.00
SPRING CLIP L	Long spring clip insert length 3.5 inches	$5.00
SPRING CLIP S	Short spring clip insert length 2.5 inches	$5.00
Cables		
OPC656	DC power cable for BC121N or BC197 gang chargers	$12.00
Carrying Cases		
NCF30G CLIP	Nylon carrying case with a clip for the F30G/40G & M36 radios	$30.00
NCF30G LOOP	Nylon carrying case with a loop for the F30G/40G & M36 radios	$25.00
Chargers		
AD94 11	Adapter cup installs in the BC119N or BC121N for the BP209N & BP210N batteries	$28.00
AD99N	Spacer for the AD94 adapter cup	$6.40
BC121N	6 unit multi-charger; requires radio specific adapter cups & BC157 AC adapter	$305.00
BC144N 51	117V rapid charger F11/21/3G/4G/30G/40G series	$66.00
BC144N 52	220V rapid charger F11/21/3G/4G/30G/40G series	$75.00
BC145SA 31	110V AC adapter for rapid chargers	$25.00
BC145SE 32	220V AC adapter for rapid chargers	$25.00
BC157S	110V power supply for 6 bank gang chargers	$120.00
BC157S 220V	220V power supply for the 6 bank gang chargers	$126.00
CP17L	12V cigarette lighter cable for use with BC-119N/BC-160	$30.00
Headsets		
HS94	Earpiece headset; use with VS1/OPC2004/OPC2006/OPC1392	$25.00
HS95	Headset with boom mic; use with VS1/OPC2004/OPC2006/OPC1392	$215.00

F30G – F40G Series

The F30G & F40G portables are discontinued and no longer available from Icom. Icom does still sell the below compatible accessories.

Accessories

Model	Description	MSRP
HS97	Earphone with throat mic headset; use with VS1/OPC2004/OPC2006/OPC1392	$42.00
OTTO V410399	Skull Mic System w/earcup and 80mm body PTT for F30G/40G and M88	$650.00
VS1SC	VOX/PTT case with 9-pin connector. Must use with HS94/HS95/HS97.	$68.00
Internal Modules		
UT109 02	Non-rolling voice scrambler. Up to 32 codes available. Not compatible with radios using the UT-110.	$105.00
UT110 02	Rolling voice scrambler. Up to 1020 (255 codes x 4 groups) codes available.	$173.00
UT124 01	Man down unit	$90.00
Manuals		
94413511	F40GS/GT CD service manual	$40.00
94414803	F30G/F40G CD service manual	$40.00
97713510	F30GS/GT service manual hardcopy	$40.00
97713513	F40GS/GT service manual hardcopy	$40.00
98813509	F30G/F40G owner's manual	$12.00
Microphones		
EM80	9-pin full size speaker mic for F30G series. IS approved to work with F30G IS radios.	$15.00
HM131SC	Speaker/microphone with earphone jack and clip (9-pin)	$79.00
OTTO V110282	Speaker mic earpiece(2.5mm straight plug)	$50.00
OTTO V110432	Speaker mic earpiece (2.5mm right angle plug)	$60.00
OTTO V210314	Evolution heavy duty mic with hi/lo volume switch, 2.5mm earphone jack and 9-pin connector	$140.00
OTTO V210315	Evolution heavy duty mic with hi/lo volume switch and 9-pin connector immersion rated IP68	$140.00
OTTO V2L2CM11	Profile speaker mic with 9-pin connector	$115.00
SP13	Earphone for speaker mics/handhelds	$5.00
Miscellaneous		
AD52	Earphone adapter for the F3161/F4161/F30G/M88	$25.00
Programming Software & Cables		
CSF30G	F30G/F40G Prg Software	$72.00
OPC966	PC to radio programming cloning cable with RC-232S connector for radios with 9-pin connector	$168.00
OPC966U	PC to radio programming cloning cable with USB connector for radios with 9-pin connector	$168.00
Wire Kits		
OTTO V110602	3-wire mini lapel mic kit (earphone/cable with mic/cable with barrel style PTT) with 9-pin connector for F30G/F40G/M88 only	$185.00
OTTO V1T12CD137	Throat Mic Sys w/tube ear piece and body PTT with 9 pin connector for F30G/40G	$505.00

F121 – F221 Series

The F121/S & F221/S mobiles are discontinued and no longer available from Icom. Icom does still sell the below compatible accessories.

Accessories

Model	Description	MSRP
Antennas		
ANTENNA 1	118-940MHz mountable unity antenna, Field Tunable, 1/4 WAVE, CHR	$20.00
ANTENNA 2	144-174MHz 3dB gain mountable antenna, CHR, 59" high	$38.00
ANTENNA 3	450-470MHz 5dB gain mountable antenna, CHR, 40" high	$42.00
ANTENNA 4	152-162MHz 3dB Gain Mountable Gray 1/4 Wave 21.6"	$20.00
Cables		
OPC1132	DC power cable. Comes standard with most mobile radios (9.8ft) and has a 2-pin T connector	$45.00
OPC617	Accesory cable for external terminal connection	$65.00
External Speakers		
SP22	5W small mobile rectangular external speaker (4Ohm)	$58.00
SP35	5W external speaker with 3.5mm speaker jack and 2m cable	$60.00
GPS		
IA10321A	Cloning adapter for the UT-IA321. Use only with the OPC-1122U.	$70.00
UT-IA321	SimpleTrack GPS card and antenna for F121 series radios	$110.00
Internal Modules		
UT108	DTMF decoder and ANI board	$39.00
UT109 02	Non-rolling voice scrambler. Up to 32 codes available. Not compatible with radios using the UT-110.	$105.00
UT110 02	Rolling voice scrambler. Up to 1020 (255 codes x 4 groups) codes available.	$173.00
Manuals		
94414481	F121S/221S & F121/221 CD service manual	$40.00
97714774	F121 service manual hardcopy	$40.00
97714775	F221 service manual hardcopy	$40.00
98813163	UT111 OWNERS MANUAL	$12.00
98814699	F121/F221 owner's manual	$12.00
Microphones		
HM148G	Self grounding microphone for mobile radios	$67.00
HM148T	DMTF mobile microphone	$110.00
HM152	Standard microphone for low/mid range mobile radios	$44.00
HM152T	DTMF modular microphone for LM mobile radios	$90.00
SM26	Desktop microphone with monitor switch for mobile radios	$90.00
Mounting Hardware		
F121 MMB	Mounting bracket F121/F221 F5011/F5021 series	$10.00
MOUNT 1	NMO Permanent Mount, 17ft RG58 cable, no connector	$23.00
MOUNT 2	Trunk Lid Mount/HD, BRKT, 45 DEG CBL, 58A/U PL259	$35.00
MOUNT 3	Black Magnetic Mount - 3 1/4" diameter, 12ft RG58 cable w/PL259 connector	$42.00
Programming Software & Cables		
CSF100	Programming Software F121 F221	$75.00
OPC1122	PC to radio programming cloning cable for mobile radios with RC-232S connector.	$99.00

F121 – F221 Series

The F121/S & F221/S mobiles are discontinued and no longer available from Icom. Icom does still sell the below compatible accessories.

Accessories

Model	Description	MSRP
OPC1122U	PC to radio programming cloning cable for mobile radios with USB connector.	$99.00

F621TR

The F621TR are discontinued and no longer available from Icom. Icom does still sell the below compatible accessories.

Accessories

Model	Description	MSRP
EXTWARR211	1 year extended warranty for a total 3 years	$25.00
EXTWARR212	2 year extended warranty for a total 4 years	$44.00
EXTWARR213	3 year extended warranty for a total 5 years	$62.00
Antennas		
ANTENNA 1	118-940MHz mountable unity antenna, Field Tunable, 1/4 WAVE, CHR	$20.00
ANTENNA 3	450-470MHz 5dB gain mountable antenna, CHR, 40" high	$42.00
Cables		
OPC1132	DC power cable. Comes standard with most mobile radios (9.8ft) and has a 2-pin T connector	$45.00
OPC347	DC power cable (23ft)	$70.00
OPC617	Accesory cable for external terminal connection	$65.00
External Speakers		
SP22	5W small mobile rectangular external speaker (4Ohm)	$58.00
SP30	20W large external speaker	$110.00
SP35	5W external speaker with 3.5mm speaker jack and 2m cable	$60.00
Internal Modules		
INSTALLLM1234	Icom installation charge	$40.00
UT108	DTMF decoder and ANI board	$39.00
UT109 02	Non-rolling voice scrambler. Up to 32 codes available. Not compatible with radios using the UT-110.	$105.00
UT110 02	Rolling voice scrambler. Up to 1020 (255 codes x 4 groups) codes available.	$173.00
Manuals		
94414732	F520/521/620/621 CD service manual	$40.00
97714190	F520/F521 service manual hardcopy	$40.00
98813163	UT111 OWNERS MANUAL	$12.00
98814193	F520/F620 owner's manual	$12.00
Microphones		
HM148T	DMTF mobile microphone	$110.00
HM152	Standard microphone for low/mid range mobile radios	$44.00
HM152T	DTMF modular microphone for LM mobile radios	$90.00
SM26	Desktop microphone with monitor switch for mobile radios	$90.00
Mounting Hardware		
MOUNT 1	NMO Permanent Mount, 17ft RG58 cable, no connector	$23.00
MOUNT 2	Trunk Lid Mount/HD, BRKT, 45 DEG CBL, 58A/U PL259	$35.00
MOUNT 3	Black Magnetic Mount - 3 1/4" diameter, 12ft RG58 cable w/PL259 connector	$42.00
Programming Software & Cables		
CSF500	F520/F620 Prog. Sftwre	$72.00
CSF620TR	F621TR programming software	$72.00
OPC1122	PC to radio programming cloning cable for mobile radios with RC-232S connector.	$99.00
OPC1122U	PC to radio programming cloning cable for mobile radios with USB connector.	$99.00

F621TR

The F621TR are discontinued and no longer available from Icom. Icom does still sell the below compatible accessories.

Accessories

Model	Description	MSRP
RedHawk		
IAS BC-RHADPTR	100-240V charger adapter for use with the IAS OPC-RHUSB	$70.00
IAS BC-RHCHG1	100-240V single unit charger for RedHawk mic	$105.00
IAS BC-RHCHG12	100-240V 12 unit charger for the RedHawk mics	$1,000.00
IAS BP-RHBATT1	3.8V 1200mAh battery for RedHawk mic	$45.00
IAS CP-RHLP	12-24V cigarette lighter plug requiring 2 USB cables	$60.00
IAS CS-RHSW	Utility software to upload stored tracks, optional PC programming, online demos. One per customer needed.	$120.00
IAS OPC-RHUSB	USB cable to connect mic with PC or charger adapter. One comes with each microphone.	$30.00
IAS REDHAWK	Speaker microhpone with GPS receiver. LCD display shows basic orientation of all members within a group. Battery & USB cable included. Cable that hooks from microphone to radio is required.	$584.00

FR3000 – FR4000 Series

The FR3000/4000 repeaters are discontinued and no longer available from Icom. Icom does still sell the below compatible accessories.

SPECS

Frequencies:	136-174, 450-480MHz
Output Power:	50W at 100% Duty Cycle
Channels:	32
Channel Spacing:	12.5 / 25kHz Switchable
LCD Display:	16-Digit Dot Matrix Display
Mil Spec:	810 C, D, E, F

FEATURES

CW ID included
Automatic battery backup
DB-25 accessory connector
Built-in community tone panel
Internal space for duplexer & pre-selector
Telephone interconnect built-In
Master/Slave backup operation
Password Kill/Stun security function
Temperature aler

SIGNALING

Up to 16 CTCSS/DTCS Tone Signals Per Channel
DTMF Encode/Decode
Built-In 2-Tone, 5-Tone

ENCRYPTION

Simple Inversion: UT-109 32 Codes
Rolling Code: UT-110 1020 Codes

WARRANTY

2-Years

FR3000 – FR4000 Series

The FR3000/4000 repeaters are discontinued and no longer available from Icom. Icom does still sell the below compatible accessories.

Accessories

Model	Description	MSRP
Cabinets		
ASAP INDOOR CABINET 30	30" indoor cabinet	$1,365.00
ASAP INDOOR CABINET 46	46" indoor cabinet	$1,950.00
ASAP INDOOR CABINET 60	60" indoor cabinet	$3,025.00
Duplexers		
IAS UHF DUP KIT 457-462	457-462MHz internal notch type duplexer for FR4000 (5MHz minimum separation)	$583.33
IAS VHF DUP KIT 150-155	150-155MHz internal notch type duplexer for FR3000 (3MHz minimum separation)	$583.33
IAS VHF DUP KIT 150-159	150-159MHz internal notch type duplexer for FR3000 (3MHz minimum separation)	$583.33
IAS VHF DUP KIT 152-155	152-155MHz internal notch type duplexer for FR3000 (3MHz minimum separation)	$583.33
External Speakers		
SP22	5W small mobile rectangular external speaker (4Ohm)	$58.00
SP35	5W external speaker with 3.5mm speaker jack and 2m cable	$60.00
Internal Modules		
UT109 01	Non-rolling voice scrambler. Up to 32 codes available. Not compatible with radios using the UT-110.	$105.00
UT110 01	Rolling voice scrambler. Up to 1020 (255 codes x 4 groups) codes available.	$173.00
Manuals		
94414791	FR3000/4000 CD service manual	$40.00
97714766	FR4000 service manual hardcopy	$40.00
98814698	FR4000 OWNERS MANUAL	$12.00
Microphones		
HM148G	Self grounding microphone for mobile radios	$67.00
HM148T	DMTF mobile microphone	$110.00
HM152	Standard microphone for low/mid range mobile radios	$44.00
HM152T	DTMF modular microphone for LM mobile radios	$90.00
SM26	Desktop microphone with monitor switch for mobile radios	$90.00
Mounting hardware		
ASAP FR RACK	Rack-cabinet mounting frame for FR3000/4000	$120.00
MB77	FR3000/4000 wall mount bracket	$110.00
Pilot Tone Generator		
JPSPTG10	Pilot tone generator for analog operation only (requires ASAP mounting plate for installation)	$980.67
Pre-Selectors		
FIP PR-15-4H	VHF internally mounted 4-cavity RX Pre-Selector (requires ASAP mounting plate for installation with FR5000)	$653.00

FR3000 – FR4000 Series

The FR3000/4000 repeaters are discontinued and no longer available from Icom. Icom does still sell the below compatible accessories.

Accessories

Model	Description	MSRP
FIP PR-45-4C	UHF internally mounted 4-cavity RX Pre-Selector (requires ASAP mounting plate for installation w/FR6000)	$640.00
Programming Software & Cables		
CSFR3000	FR3000 Program Sftwre	$72.00
OPC478	PC to handheld programming cable with RS-232S connector for radios with 2-pin connectors	$60.00
OPC592	Programming cloning cable for PC to radio (must use with OPC-478/UC)	$17.00
Racks		
HMDDNRR42HDW	42" rack (includes assembly and hardware)	$502.00
HMDDNRR63HDW	63" rack (includes assembly and hardware)	$561.00
HMDDNRR70HDW	70" rack (includes assembly and hardware)	$569.00
HMDRRTT1928	28" rack (includes assembly and hardware)	$275.00
Relay Kit		
IAS COAX RLY KIT FR3000	Antenna relay kit for FR3000/4000 (for base station applications)	$422.00

U.S. Receiver Retail

Product & Price Catalog

September 2014

All stated specifications are subject to change without notice or obligation.
All Icom radios meet or exceed FCC regulations limiting spurious emissions.
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www.icomamerica.com/downloads

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Warranty

Icom's Standard Warranty

Icom America Inc warrants its Icom manufactured products from all factory defects in material or workmanship under normal use and service. All warranties start from the time the end user purchases all products. All accessories come with a 1-year warranty. See the individual product page for specific warranty coverage.

Icom Service Centers

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Kirkland, WA 98034

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Services: Amateur, Avionics, Land Mobile, Marine, Receivers

Michigan
Icom Service Center – Michigan
1792 Nash Drive
St. Joseph, MI 49085

Phone: 269.429.2334

Services: Amateur, Marine, Receivers

Receivers

ICOM
IC-R75
COMMUNICATIONS RECEIVER
USB
R75
SSB
CW/RTTY
FIL
AM
FM
TS
AF-⊖-RF/SQL
TWIN PBT
ANT SET
CLOCK
PHONES
POWER
P.AMP
ATT
NR
ANF
NB
AGC
V/M
MW
CLR
SEL
SCAN
▼DN
UP▲
ENT

R6

Communications Receiver

SPECS

Frequencies:	0.100-1309.995MHz* *Blocked cellular frequency 824-849 and 869-894MHz **Unblocked for sale to Fedeeral Government, export, or authorized end users only
Display Type:	LCD
Band Scope:	No
Receiver Type:	Triple conversion superheterodyne
Modes:	AM, FM, WFM
Channels:	1300 (50 scan edges and 200 auto memory write scan)
Auto Memory:	Yes
Alphanumeric Display:	6 Character
PC Programming:	Optional with CS-R6 software
PC Controllable:	Yes
Power Supply:	Ni-MH cells with AC Adapter, BC-196SA
Antenna Connector:	SMA
Weight:	7.1oz
Number in Case:	5
Warranty:	1 Year

FEATURES

Wideband coverage
100 channels per second high speed scan
15 hours of continuous receive capability
VSC (Voice Squelch Control)
150mW audio output power
Earphone cord antenna for AM aviation and FM broadcasts
Duplex operation monitor
Priority watch function
PC controllable with optional CT17
Built-in audio low pass filter

SUPPLIED ACCESSORIES

Antenna (FAS270C)
AC adapter (BC196SA)
Ni-MH cells
Belt clip
Hand strap
Owner's manual

R6

Communications Receiver

Configurations

Model	Description	MSRP
R6 SPORT 16	Blocked version for consumer purhcase. Requires 2 AA batteries.	$225.00
R6 20	Unblocked for Federal/Export Only with battery and charger included	$246.00

Accessories

Model	Description	MSRP
Antennas		
AD92SMA	Antenna connector adapter to connect a BNC-type antenna	$20.00
FAS270C	Wideband RX antenna (SMA)	$35.00
Carrying Cases		
LC146A	R5/R6 carrying case	$30.00
Chargers		
BC194 02	Drop-in trickle charger stand to use with the BC-196S or CP-18A (R6)	$39.00
BC196SA	110V AC adapter for R6 and BC194	$35.00
BC196SD	220V AC adapter for R6 & BC194	$35.00
CP18A	Cigarette lighter cable 12V	$40.00
Manuals		
94415532	R6 CD service manual	$40.00
97715530	R6 hardcopy service manual	$40.00
98815531	R6 owner's manual	$12.00
Microphones		
SP13	Earphone for speaker mics/handhelds	$5.00
Miscellaneous		
CT17	Level converter	$190.00
Programming Software & Cables		
CSR6	Programming software fo R6	$58.00
OPC474	Radio to radio cloning cable (3.5mm to 3.5mm)	$20.00
OPC478	PC to handheld programming cable with RS-232S connector for radios with 2-pin connectors	$60.00
OPC478UC	PC to handheld programming cable with USB connector for radios with 2-pin connectors	$70.00
Wire Kits		
SP27	Acoustic tube earphone with a clip to attach to clothing	$35.00

R20

Communications Receiver

SPECS

Frequencies:	0.150-1304.999, 1305.000-3304.999MHz* *Cellular blocked in US **Unblocked for sale to Federal Government, export, or authorized end users only
Display Type:	LCD
Band Scope:	Yes
Receiver Type:	Triple conversion superheterodyne plus down converter
Modes:	LSB*, USB*, CW*, AM, FM, WFM (*0.150-469.999MHz)
Channels:	1250 (1000 regular, 50 scan edges, 200 auto memory write)
Alphanumeric Display:	Yes
PC Programming:	Yes
PC Controllable:	Yes with CT17
CTCSS and DTCS:	Standard
Attenuation:	Yes
Power Supply:	1650mAh Li-ion
Antenna Connector:	SMA
Weight:	11.3oz (w/BP206)
Number in Case:	5
Warranty:	1 Year

FEATURES

Dual watch receive
4 hour digital recorder
USB port
100 channels per second
Dynamic banks, capable of linking banks
VSC (Voice Squelch Control) opens squelch only when modulated signal detected

SUPPLIED ACCESSORIES

Antenna
Battery cell assembly (BP206)
Wall charger (BC156 unblocked version only)
Belt clip (MB98)
Hand strap
Owner's manual

R20

Communications Receiver

Configurations

Model	Description	MSRP
R20 SPORT 06	Blocked HH receiver. Requires alkaline batteries, no charger included	$625.00

Accessories

Model	Description	MSRP
Antennas		
FAB04RE	Wideband RX antenna (BNC)	$32.00
Batteries		
BP206	Li-Ion 3.7V 1650 standard battery for the R3/R20	$71.00
Belt Clips		
MB86	Swivel belt clip that screws into back of radio	$11.00
MB98	Standard belt clip for the F50/60 & M88	$13.00
Carrying Cases		
LC158	R20 carrying case	$45.00
Chargers		
BC153SA 52	110V trickle charger R5/R20	$39.00
BC156	Desktop rapid charger for the R20 (not CEC compatible for AM radios)	$110.00
CP18A	Cigarette lighter cable 12V	$40.00
Manuals		
97714840	R20 service manual hardcopy	$40.00
98814851	R20 owner's manual	$12.00
Microphones		
SP13	Earphone for speaker mics/handhelds	$5.00
Miscellaneous		
CT17	Level converter	$190.00
Programming Software & Cables		
CSR20	R20 Cloning Software	$66.00

R75

HF+50MHz All Mode Communications Receiver

SPECS

Frequencies:	0.03-60.000000MHz
Display Type:	LCD
Band Scope:	With RSR75 Software
Receiver Type:	Triple conversion, super heterodyne
Modes:	USB, LSB, CW, RTTY, AM, FM
Channels:	101 (99 regular, 2 scan edges)
Alphanumeric Display:	8 Character
PC Programming:	With optional RSR75 software
PC Controllable:	Yes, CI-V or RSR75
CTCSS Tone:	N/A
Attenuation:	Yes, CI-V or RSR75
Power Supply:	117, 220, 240V AC with AD-55/E
Antenna Connector:	SO-239
Weight:	6 lb 10 oz
Number in Case:	2
Warranty:	1 Year

FEATURES

Compact body
Digital bar S-meter with peak hold
Front mounted speaker for easy listening
Internal clock with ON/OFF, sleep timer
Numeric keypad for direct frequency or memory channel input
Attenuator • 2-level preamp
Selectable AGC (FAST/SLOW/OFF)
Noise blanker
Ample scanning functions available
CW pitch control and CW reverse mode

SUPPLIED ACCESSORIES

AC adapter (AD55S)
DSP unit (UT106)
Spare fuses
Owner's manual

R75

HF+50MHz All Mode Communications Receiver

Configurations

Model	Description	MSRP
R75 22	HF+50MHz Receiver Twin PBT, PC Control, AF-DSP	$896.00

Accessories

Model	Description	MSRP
Chargers		
AD55S 22	110V AC power supply adapter	$64.00
External Speakers		
SP23	External speaker with 4 audio filters; headphone jack (5W)	$265.00
Filters		
FL100	500Hz CW/FSK narrow filter for older radios IC-575/706/725/726/728/ 729/736/737/738/761/746/756/765/775/78/M700PRO/M710/R72/R75	$165.00
FL222	1.9kHz SSB filter IC-78/703 series/706 series/718/R75	$300.00
FL223	9MHz 1.9kHz SSB filter IC-706 Series/746/756/775/781/R75	$150.00
FL232	350Hz CW/RTTY Filter-HF IC-706 series/746/756/775/781/7400/R75	$170.00
FL52A	500Hz 455KHz CW filter IC-78/703/718/746/756/7400/R75/R8500	$284.00
Internal Modules		
UT106	DSP unit	$195.00
Manuals		
94412913	R75 CD service manual	$40.00
97712938	R75 service manual hardcopy	$40.00
98812934	R75 owner's manual	$12.00
Miscellaneous		
CR282	High stability crystal	$230.00
CT17	Level converter	$190.00
Mounting Hardware		
MB23	Carry handle and mounting hardware for the IC-77/707/821H/R8500/R75	$20.00
Programming Software & Cables		
OPC478	PC to handheld programming cable with RS-232S connector for radios with 2-pin connectors	$60.00
RSR75	Remote Cntrl Software	$100.00

R9500

Communications Receiver

SPECS

Frequencies:	0.005-3335.000MHz* *Cellular bands are blocked in U.S.A. version
Display Type:	TFT LCD (800x480)
Band Scope:	Multi-Function Spectrum Scope
Receiver Type:	Super heterodyne
Modes:	USB, LSB, CW, FSK, AM, FM, WFM, P25* (*optional UT-122 Required)
Channels:	1220 (1000 regular, 100 auto memory write channels, 100 memory scan skip, and 20 scan edges)
Scan Edges:	20 Pair
AFC:	Yes (FM/WFM mode only)
VSC:	Yes
Alphanumeric Display:	Yes
PC Programming:	Yes
PC Controllable:	Yes

TCSS Tone:	Standard
Attenuation:	3 levels (10dB, 20dB, 30dB)
Power Supply:	100V/120V/230V/240V AC
Antenna Connector:	4 (SO-239, RCA, 2 type-N)
Weight:	44.1lb
Number in Case:	1
Warranty:	1 Year

FEATURES

Wideband coverage
+40dBm 3rd order intercept point and 109dB dynamic range* (*At 14.1MHz)
Multi-function high performance spectrum scope
±0.05ppm high frequency stability
±3dB* accuracy of dBμ/dBμ(emf) /dBm meter
(*10 to 70dBμ signal between 100kHz to 3335MHz at 25°C)
SSB/CW/AM mode auto tuning function
Optional P25 digital mode reception
Professional grade operation, functionality and build

SUPPLIED ACCESSORIES

AS power cable
Carrying handles
RCA plugs
DC power plug
ACC plugs
Speaker plugs
Spare fuses
Owner's manual

R9500

Communications Receiver

Configurations

Model	Description	MSRP
R9500 02	Blocked version for consumer purchase	$16,000.00
R9500 06	Unblocked for Federal/Export Only	$17,500.00

Accessories

Model	Description	MSRP
Antennas		
AH8000	Discone antenna wideband RX TX 100-3300MHz	$340.00
External Speakers		
SP34	Base station high quality speaker with internal audio filters	$465.00
Internal Modules		
UT122	P-25 digital unit	$299.00
Manuals		
98815256	R9500 owner's manual	$12.00
Miscellaneous		
CT17	Level converter	$190.00

U.S. Systems Retail

Product Catalog

September 2014

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Warranty

Icom's Standard Warranty

Icom America Inc warrants its Icom manufactured products from all factory defects in material or workmanship under normal use and service. All warranties start from the time the end user purchases all products. All accessories come with a 1-year warranty. See the individual product page for specific warranty coverage.

Warranty Equipment Chart

ONE YEAR WARRANTY	TWO YEAR WARRANTY	THREE YEAR WARRANTY
CY Repeater*	4088A FRS	F3230D-F4230D Series
X-Band Repeater*	F3011-F4011 Series	F3161-F4161/D Series
Voting Receiver*	F3001-F4001 Series	F3261D-F4261D Series
CY5000-CY6000 Repeater*	F14-F24 Series	F70D-F80D Series
IAS 100D Repeater*	F3101D-F4101D Series	F9011-F9021 Series
IAS 100W Repeater*	F3210D-F4210D Series	F5061-F6061/D Series
	F3021-F4021 Series	F1721D-F1821D Series
	F3031-F4031 Series	F9511-F9521 Series
	F50-F60 Series	
	F70-F80 Series	
	F5011-F6011 Series	
	F5021-F6021 Series	
	F5121D-F6121D Series	
	F5220D-F6220D Series	
	F1721-F1821 Series	
	FR3000-FR4000	
	FR5000-FR6000	
	URFR5000-URFR6000	

**The F121/F221, FR/UR repeater in the IAS product will receive a two year warranty and everything else will receive a one year warranty.*

ONE YEAR WARRANTY - ACCESSORIES		
Speaker Microphones	Belt Clips	
Headsets & Ear Pieces	Power Supplies	
Mobile Microphones	External Speakers	
Batteries	Duplexers	
Chargers Internal	Modules	
Antennas	Separation Kits	

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Joe's Electronics & Repairs Inc.
Contact Person: Joe
14430 Valley Blvd.
City of Industry, CA. 91746

Phone: 626.330.5338
Fax: 626.810.9656
Email: joek91755@yahoo.com

Services: Land Mobile

Illinois
AJR INT'L, Inc.
Contact Person: Sandra
300 Regency Drive
Glendale Heights, IL 60139

Phone: 888.616.9600
Fax: 630.832.0333
Email: icomservice@ajrintl.com

Services: Land Mobile, Marine VHF
NOT: M802, M700PRO, M710, M700, M600

New York
United Radio
Contact Person: Ron Cook
5703 Enterprise Parkway
East Syracuse, NY 13057

Phone: 315.445.3239
Phone: 800.599.2101
Fax: 315.445.3299
Email: rcook@unitedradio.com

Services: Land Mobile, Marine VHF
NOT: M802, M700PRO, M710, M700, M600

Programming Options & Policies

Portable Antennas Options

Icom's handheld radios come standard with the below antennas:

- VHF 150-174 MHz antenna
- UHF 440-470 MHz (red tip)

Icom also makes VHF 136-155 MHz antennas and high and low spilt UHF antennas. When you order handhelds from Icom, please confirm what frequency you need. If you need a different frequency range, we will swap out the standard antenna and replace with the one you want. The B2B offers this option once you select the radio you want to purchase.

Substitution Policy

Stubby antenna and battery substitutions permitted on request, price differences may apply. When ordering please use the upgrade and substitution codes needed (ex: BP-240 sub). See the appropriate accessory pages for these new codes. Chargers and batteries can- not be substituted on the F3001, F3011, & F3101D series radios.

Programming & Installation Options - Portables & Mobiles

We provide customized programming and optional module installation on new radio orders. Please add the appropriate part number to your PO.

Programming & Installation Fees - IAS Equipment

Many Icom America System products offer internal modules that require installation and programming. We provide customized programming and optional module installation on new IAS orders. Please add a line item to your PO.

Icom America Systems

Systems for People Who Make Smart Choices

Icom America Systems, a business enterprise of the Land Mobile Division of Icom America, Inc., providing complete systems package for today's communication needs, assembling high quality "one-stop systems" for installation at customer's locations around the globe. The Systems department has technical specialists who are available upon request to perform technical training, on-site consulting and/or field installations. Our large service facility and full-time trained service technicians stand ready to assist.

Onsite Service/Installation	**Description**
IAS Onsite Tech Daily Rate	System optimization -installation/service
IAS Onsite Tech Travel Day	Travel day fee per day to location and from location
IAS Onsite Travel Expenses	Travel expenses airfare/hotel etc.

Onsite Consulting	**Description**
IAS Consulting Daily Rate	Consulting/training services
IAS Consulting Travel Day	Travel day fee per day to location and from location
IAS Consulting Travel Expenses	Travel expenses airfare/hotel etc.

*Please note that for Icom America Systems to perform any of the above services, an official quote will need to be issued by Icom to you the customer. Inquire to IAS for further information.

* All scheduling of the above services will be at the discretion of Icom America Systems.

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425-586-6321 Fax
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ias@icomamerica.com

X-BAND REPEATER

Cross Band VHF & UHF

SPECS

Frequencies:	136-174, 400-470MHz or AV frequencies
Output Power:	50W (VHF), 45W (UHF)
Channels:	128 channels, 8 zones
Channel Spacing:	12.5kHz
PLL Channel Spacing:	2.5, 3.125kHz
Display:	LCD with 8 character alphanumeric

FEATURES

Full UHF & VHF analog interoperability
Configured to auto switch from AC to DC
Local controlled operation, can be used as a dual base unit
Programmable actions when a matched tone is received:
- Bell icon indication ON / OFF / Blink
- Answer back calls
- Beep sounds
- Scan Start / Stop
- Auto transmission
- Stun / Kill functions (prevents use of a lost or stolen)

10 scanning lists and Normal / Priority scan
Power ON password

SIGNALING

CTCSS/DTCS decode
2/5 Tone
MDC1200

WARRANTY

Radios: 2 years
Parts: 1 year

X-BAND REPEATER

Cross Band VHF & UHF

Configurations

Model	Description	MSRP
IAS X-BAND 50	VHF FM & UHF FM cross band repeater	$2,500.00
IAS X-BAND 50 AIR U	Airband AM & UHF FM cross band repeater	$3,250.00
IAS X-BAND 50 AIR V	Air AM & VHF FM cross band repeater	$3,250.00
IAS X-BAND 50 UU	UHF FM & UHF FM cross band repeater	$2,500.00
IAS X-BAND 50 VV	VHF FM & VHF FM cross band repeater	$2,500.00

Accessories

Model	Description	MSRP
EXTWARRPT1	1 year extended warranty for a total 3 years	$180.00
EXTWARRPT2	2 year extended warranty for a total 4 years	$325.00
EXTWARRPT3	3 year extended warranty for a total 5 years	$465.00
Cabinets		
ASAP INDOOR CABINET 30	30" indoor cabinet	$1,365.00
ASAP INDOOR CABINET 46	46" indoor cabinet	$1,950.00
ASAP INDOOR CABINET 60	60" indoor cabinet	$3,025.00
Programming Software & Cables		
CSF3021/F5021/F5011	F3021/5021/5011 series programming software	$72.00
OPC1122	PC to radio programming cloning cable for mobile radios with RC-232S connector.	$99.00
OPC1122U	PC to radio programming cloning cable for mobile radios with USB connector.	$99.00
PROGLM1234	Icom to program your radio or IAS product	$42.00
PROGRAMMING IAS	Icom to program your repeater	$50.00
Racks		
HMDDNRR42HDW	42" rack (includes assembly and hardware)	$502.00
HMDDNRR63HDW	63" rack (includes assembly and hardware)	$561.00
HMDDNRR70HDW	70" rack (includes assembly and hardware)	$569.00
HMDRRTT1928	28" rack (includes assembly and hardware)	$275.00

Voting Receiver

Enhance Portable & Mobile Talk-In Performance

SPECS

Frequencies:	150-170, 450-470MHz
Output Power:	50W (VHF), 45W (UHF)
Channels:	8
Channel Spacing:	12.5kHz
Display:	None
Filter RF specs:	150-160, 160-170, 450-470
Output impedance:	600 ohms balanced
Audio Frequency:	1950Hz or 20kHz +/-2Hz
Pilot tone frequency:	1950Hz or 1275Hz, switch selectable
Pilot tone stability:	+/-2Hz

FEATURES

3-Cavity band pass filter improves selectivity & intermod performance
Receiver system is a doable-conversion superheteodyne system
Configured to auto switch from AC to DC

SIGNALING

CTCSS/DTCS encode/decode
DTMF encode
2/5 Tone
MDC1200 PTT ID & Emergency call
DTMF decode (UT-108R)

WARRANTY

Radios: 2 years
Parts: 1 year

IP54 DUST PROTECTION & SPLASH PROOF

Meets MIL-STD 810

OTTO ACCESSORIES AVAILABLE

MDC 1200 Compatible

Voting Receiver

Enhance Portable & Mobile Talk-In Performance

Configurations

Model	Description	MSRP
IAS VOTING RX UHF	400-470 voting receiver; 460MHz center frequency	$2,833.34
IAS VOTING RX VHF	136-174 voting receiver; 150-174MHz center frequency	$2,833.34

Accessories

Model	Description	MSRP
EXTWARRPT1	1 year extended warranty for a total 3 years	$180.00
EXTWARRPT2	2 year extended warranty for a total 4 years	$325.00
EXTWARRPT3	3 year extended warranty for a total 5 years	$465.00
Cabinets		
ASAP INDOOR CABINET 30	30" indoor cabinet	$1,365.00
ASAP INDOOR CABINET 46	46" indoor cabinet	$1,950.00
ASAP INDOOR CABINET 60	60" indoor cabinet	$3,025.00
Programming Software & Cables		
CSF100S	Programming software for the F121S/F221S mobiles	$75.00
OPC1122	PC to radio programming cloning cable for mobile radios with RC-232S connector.	$99.00
OPC1122U	PC to radio programming cloning cable for mobile radios with USB connector.	$99.00
PROGLM6789	Icom to program your radio or IAS product	$70.00
Racks		
HMDDNRR42HDW	42" rack (includes assembly and hardware)	$502.00
HMDDNRR63HDW	63" rack (includes assembly and hardware)	$561.00
HMDDNRR70HDW	70" rack (includes assembly and hardware)	$569.00
HMDRRTT1928	28" rack (includes assembly and hardware)	$275.00

CY5000 – CY6000 Repeaters

All In One IDAS™ Digital & Analog Repeater

SPECS

Frequencies:	136-174, 400-470, 450-512MHz
Output Power:	50W at 50% duty cycle 25W at 100% duty cycle
Channels:	32
Channel Spacing:	6.25 (digital) / 12.5kHz
Versions:	Repeater only Repeater With Duplexer Repeater With Pre-Selector Repeater With Duplexer & Pre-Selector

SPECS & FEATURES

Built-in power supply: 13.8V in or 110V AC in or 220V AC in
Built-in battery backup & charging capable
Built-in heavy duty A/C EMI filtering
3 RU tall - built-in rack handles
19” standard rack or cabinet mounting
Powder-coated steel chassis N style bulkhead connectors built-in grounding stud
Max air cross flow: 80 CFM for excellent ventilation
DB-25 rear connector interface for external equipment
DC terminal strip for easy BBU connection
3 ethernet connections for IP / remote management / trunking
Digital Features:

- IDAS Trunking-single or multisite (UC-FR5000 & CFFR5000)
- Receives analog and digital signals on a single channel
- NXDN® Digital Air Interface
- Strongest site search
- Firmware upgrade over IP
- Configuration over IP

SIGNALING

Digital RAN Code decode
5-tone & DTMF Encode/Decode (analog)
CTCSS

ENCRYPTION

Simple Inversion: UT-109R 32 Codes
Rolling Code: UT-110R 1020 Codes
IDAS digital mode, 15-bit encryption key provides over
32K codes

WARRANTY

1-Year

MULTITRUNK iDAS™ ICOM DIGITAL ADVANCED SYSTEM

CY5000 – CY6000 Repeaters

All In One IDAS™ Digital & Analog Repeater

Configurations

Model	Description	MSRP
CY5000 41	136-174MHz analog/digital repeater	$2,230.00
CY5000 41 PRE	136-174MHz analog/digital repeater with pre-selector installed	$2,855.00
CY5000 41 D 150-155	136-174MHz analog/digital repeater with duplexer (150-155MHz) included	$2,835.00
CY5000 41 D 152-155	136-174MHz analog/digital repeater with duplexer (152-155MHz) included	$2,835.00
CY5000 41 D PRE 150-155	136-174MHz analog/digital repeater with pre-selector and duplexer (150-155MHz) included	$3,300.00
CY6000 41	400-470MHz analog/digital repeater	$2,230.00
CY6000 41 PRE	400-470MHz analog/digital repeater with pre-selector	$2,855.00
CY6000 41 D 457-462	400-470MHz analog/digital repeater with duplexer (457-462) included	$2,835.00
CY6000 41 D PRE 457-462	400-470MHz analog/digital repeater with pre-selector and duplexer (457-462) included	$3,300.00
CY6000 51	450-512MHz analog/digital repeater	$2,230.00
CY6000 51 PRE	450-512MHz analog/digital repeater with pre-selector	$2,855.00
CY6000 51 D 457-462	450-512MHz analog/digital repeater with duplexer (457-462) included	$2,835.00
CY6000 51 D PRE 457-462	450-512MHz analog/digital repeater with pre-selector and duplexer (457-462) included	$3,300.00

Accessories

Model	Description	MSRP
EXTWARRPT1	1 year extended warranty for a total 3 years	$180.00
EXTWARRPT2	2 year extended warranty for a total 4 years	$325.00
EXTWARRPT3	3 year extended warranty for a total 5 years	$465.00
Cabinets		
ASAP INDOOR CABINET 30	30" indoor cabinet	$1,365.00
ASAP INDOOR CABINET 46	46" indoor cabinet	$1,950.00
ASAP INDOOR CABINET 60	60" indoor cabinet	$3,025.00
Duplexers		
CY5000 DUP KIT 150-159	150-159MHz internal duplexer for the CY5000 (9MHz minimum separation)	$608.33
CY6000 DUP KIT 457-462	457-462MHz internal duplexer for the CY6000 (5MHz minimum separation)	$608.33
Internal Modules		
INSTALLLM1234	Icom installation charge	$40.00
IP Linking		
CFFR5000 02	Multi-site (conventional only) IP repeater link card (requires the UC-FR5000 board)	$65.00
CFFR5000MT	Multi-site(conventional & trunking)IP repeater link card (requires UC-FR5000 board)	$1,375.00
Manuals		
94415355	FR6000 CD service manual	$40.00
94415514	FR5000 CD service manual	$40.00
97715348	FR6000 service manual - hardcopy	$40.00
97715370	FR5000 service manual - hardcopy	$40.00

CY5000 – CY6000 Repeaters

All In One IDAS™ Digital & Analog Repeater

Accessories

Model	Description	MSRP
98815350	FR5000/6000 owner's manual	$12.00
Miscellaneous		
CT24	Digital voice converter (supplied with RCFS10 and works with VEPG3)	$1,495.00
VEPG3	ROIP Gateway	$1,900.00
Pilot Tone Generator		
JPSPTG10	Pilot tone generator for analog operation only (requires ASAP mounting plate for installation)	$980.67
Pre-Selectors		
FIP PR-15-4H	VHF internally mounted 4-cavity RX Pre-Selector (requires ASAP mounting plate for installation with FR5000)	$653.00
FIP PR-45-4C	UHF internally mounted 4-cavity RX Pre-Selector (requires ASAP mounting plate for installation w/FR6000)	$640.00
Programming Software & Cables		
CSFR5000	FR5000/6000 programming software	$72.00
OPC1122	PC to radio programming cloning cable for mobile radios with RC-232S connector.	$99.00
OPC1122U	PC to radio programming cloning cable for mobile radios with USB connector.	$99.00
PROGLM1234	Icom to program your radio or IAS product	$42.00
PROGLM6789	Icom to program your radio or IAS product	$70.00
RSMGR1	Remote system manager software for IDAS MultiTrunk	$4,995.00
Racks		
HMDDNRR42HDW	42" rack (includes assembly and hardware)	$502.00
HMDDNRR63HDW	63" rack (includes assembly and hardware)	$561.00
HMDDNRR70HDW	70" rack (includes assembly and hardware)	$569.00
HMDRRTT1928	28" rack (includes assembly and hardware)	$275.00
Remote Communication		
CT23 01	PTT microphone adapter to use SM-26 or HM-152 with a PC. Requires BC-147S.	$120.00
RCFS10 25	Remote Communicator software + CT-24 (digital voice converter unit - each IDAS system requires 1 CT-24)	$1,995.00
Trunking/Network Controller		
UCFR5000 01	Trunking/Network controller board (1 per repeater)	$500.00

FR5000 - FR6000 Series

Stable, Flexible, High Performance Digital & Analog Repeater

SPECS

Frequencies:	136-174, 400-470, 450-512MHz
Output Power:	50W at 50% duty cycle 25W at 100% duty cycle
Channels:	32
Channel Spacing:	6.25 (digital) / 12.5kHz
LCD Display:	16-digit dot matrix Display
Programmable buttons:	5
Mil Spec:	810 C, D, E, F
Scan:	Normal & priority
Size:	19-inch rack mount, 2U height
Weight:	5.6 kg; 12.3 lb (approx)
Versions:	FR repeater UR repeater module FR/UR kit (FR + UR) Two channel kits

FEATURES

CW ID included
Automatic battery backup
DB-25 accessory connector
Built-In community tone panel
Internal space for duplexer & pre-selector
Master/Slave backup operation
Password Kill/Stun security function
Temperature alert
Fits 2 RF modules in 2 unit
PTT priority setting
Low voltage alert (analog)

Digital Features:

- IDAS Trunking-single or multisite (UC-FR5000 & CFFR5000)
- Receives analog and digital signals on a single channel
- NXDN® Digital Air Interface
- Strongest site search
- Firmware upgrade over IP
- Configuration over IP

SIGNALING

Digital RAN Code decode
5-tone & DTMF Encode/Decode (analog)
CTCSS

ENCRYPTION

Simple Inversion: UT-109R 32 Codes (analog)
Rolling Code: UT-110R 1020 Codes (analog)
IDAS digital mode, 15-bit encryption key provides over 32K codes

WARRANTY

2-Year

MULTITRUNK IDAS ICOM DIGITAL ADVANCED SYSTEM

FR5000 - FR6000 Series

Stable, Flexible, High Performance Digital & Analog Repeater

Configurations

Model	Description	MSRP
FR5000 01	136-174MHz analog/digital IDAS repeater (power supply not included)	$2,165.00
FR5000 01 2CH KIT	136-174MHz 2 channel conventional system (2 repeaters, 2 external power supplies)	$3,130.00
FR5000 01 UR KIT	136-174MHz, 2 channel analog/digital repeater (FR5000 + URFR5000)	$2,695.00
FR6000 01	400-470MHz analog/digital IDAS repeater (power supply not included)	$2,165.00
FR6000 11	450-512MHz analog/digital IDAS repeater (power supply not included)	$2,165.00
FR6000 01 2CH KIT	400-470MHz 2 channel conventional system (2 repeaters, 2 external power supplies)	$3,130.00
FR6000 11 2CH KIT	450-512MHz 2 channel conventional system (2 repeaters, 2 external power supplies)	$3,130.00
FR6000 01 UR KIT	400-470MHz, 2 channel analog/digital repeater (FR6000 01 + URFR6000 41)	$2,695.00
FR6000 11 UR KIT	450-512MHz, 2 channel analog/digital repeater (FR6000 11 + URFR6000 51)	$2,695.00
URFR5000 41	136-174MHz analog/digital repeater channel module	$1,205.00
URFR6000 41	400-470MHz repeater module	$1,205.00
URFR6000 51	450-512MHz repeater module	$1,205.00

Accessories

Model	Description	MSRP
EXTWARRPT1	1 year extended warranty for a total 3 years	$180.00
EXTWARRPT2	2 year extended warranty for a total 4 years	$325.00
EXTWARRPT3	3 year extended warranty for a total 5 years	$465.00
Antenna Switches		
IAS 1RU ANT SW-DUAL	Dual antenna switch for base station operation	$910.00
IAS 1RU ANT SW-SINGLE	Single antenna switch for base station operation	$500.00
Cabinets		
ASAP INDOOR CABINET 30	30" indoor cabinet	$1,365.00
ASAP INDOOR CABINET 46	46" indoor cabinet	$1,950.00
ASAP INDOOR CABINET 60	60" indoor cabinet	$3,025.00
Cables		
OPC2273	5m audio connection cable between the VEPG3 and the M604A (Waterproof 8-pin connector).	$150.00
OPC2274	5m audio connection cable between the VEPG3 and the FR5000 series (D-SUB 25-pin connector). For use only with systems that do not utilize tones or RAN's for squelching.	$235.00
OPC2275	5m audio connection cable between the VEPG3 and the F5061/D series and A110 (RJ-45 modular plug connector with speaker plug).	$150.00
Duplexers		
IAS FR5000 DP KIT 140-145	140-145MHz internal duplexer for the FR5000 (5MHz minimum separation)	$583.33
IAS FR5000 DP KIT 150-155	150-155MHz internal duplexer for the FR5000 (5MHz minimum separation)	$583.33
IAS FR5000 DP KIT 150-159	150-159MHz internal duplexer for the FR5000 (9MHz minimum separation)	$583.33
IAS FR5000 DP KIT 152-155	152-155MHz internal duplexer for the FR5000 (3MHz minimum separation)	$583.33
IAS FR5000 DP KIT 160-165	160-165MHz internal duplexer for the FR5000 (5MHz minimum separation)	$583.33

FR5000 - FR6000 Series

Stable, Flexible, High Performance Digital & Analog Repeater

Accessories

Model	Description	MSRP
IAS FR6000 DP KIT 400-405	400-405MHz internal duplexer for the FR6000 01 (5MHz minimum separation)	$583.33
IAS FR6000 DP KIT 440-445	440-445MHz internal duplexer for the FR6000 01 (5MHz minimum separation)	$583.33
IAS FR6000 DP KIT 457-462	457-462MHz internal duplexer for the FR6000 (5MHz minimum separation)	$583.33
External Speakers		
SP22	5W small mobile rectangular external speaker (4Ohm)	$58.00
SP35	5W external speaker with 3.5mm speaker jack and 2m cable	$60.00
Internal Modules		
INSTALLLM1234	Icom installation charge	$40.00
INSTALLLM6789	Icom installation charge	$70.00
UT109R 21	Non-rolling voice scrambler. Up to 32 codes available. Not compatible with radios using the UT-110.	$105.00
UT110R 21	Rolling voice scrambler. Up to 1020 (255 codes x 4 groups) codes available. Works only in analog mode.	$173.00
IP Linking		
CFFR5000 02	Multi-site (conventional only) IP repeater link card (requires the UC-FR5000 board)	$65.00
CFFR5000MT	Multi-site(conventional & trunking)IP repeater link card (requires UC-FR5000 board)	$1,375.00
Manuals		
94415355	FR6000 CD service manual	$40.00
94415514	FR5000 CD service manual	$40.00
97715348	FR6000 service manual - hardcopy	$40.00
97715370	FR5000 service manual - hardcopy	$40.00
98815350	FR5000/6000 owner's manual	$12.00
Microphones		
HM148G	Self grounding microphone for mobile radios	$67.00
HM148T	DMTF mobile microphone	$110.00
HM152	Standard microphone for low/mid range mobile radios	$44.00
HM152T	DTMF modular microphone for LM mobile radios	$90.00
SM26	Desktop microphone with monitor switch for mobile radios	$90.00
Miscellaneous		
CT24	Digital voice converter (supplied with RCFS10 and works with VEPG3)	$1,495.00
VEPG3	ROIP Gateway	$1,900.00
Mounting hardware		
ASAP FR6000 UNIVERSAL PL	Internal universal accessory mounting plate	$26.00
Pilot Tone Generator		
JPSPTG10	Pilot tone generator for analog operation only (requires ASAP mounting plate for installation)	$980.67
Power Supplies		
ICT 22012-20A	Second power supply module for ICT 22012-20AR	$340.00
ICT 22012-20AR	External rack mountable power supply	$475.00

FR5000 - FR6000 Series

Stable, Flexible, High Performance Digital & Analog Repeater

Accessories

Model	Description	MSRP
ICT 22012-20BCR	Single module power supply - rack mountable	$712.00
ICT 22012-30N	Additional module (mounts instead the ICT 22012-70N)	$388.00
ICT 22012-35N	Single module power supply - rack mountable (4 module capable)	$1,199.00
ICT 22012-70N	Dual module power supply - rack mountable (4 module capable)	$1,587.00
ICT RMB LARGE	Bracket for second power supply (use with ICT 22012-20A)	$26.00
Pre-Selectors		
FIP PR-15-4H	VHF internally mounted 4-cavity RX Pre-Selector (requires ASAP mounting plate for installation with FR5000)	$653.00
FIP PR-45-4C	UHF internally mounted 4-cavity RX Pre-Selector (requires ASAP mounting plate for installation w/FR6000)	$640.00
Programming Software & Cables		
CSFR5000	FR5000/6000 programming software	$72.00
OPC1122	PC to radio programming cloning cable for mobile radios with RC-232S connector.	$99.00
OPC1122U	PC to radio programming cloning cable for mobile radios with USB connector.	$99.00
PROGLM1234	Icom to program your radio or IAS product	$42.00
PROGLM6789	Icom to program your radio or IAS product	$70.00
PROGRAMMING IAS	Icom to program your repeater	$50.00
RSMGR1	Remote system manager software for IDAS MultiTrunk	$4,995.00
Racks		
HMDDNRR42HDW	42" rack (includes assembly and hardware)	$502.00
HMDDNRR63HDW	63" rack (includes assembly and hardware)	$561.00
HMDDNRR70HDW	70" rack (includes assembly and hardware)	$569.00
HMDRRTT1928	28" rack (includes assembly and hardware)	$275.00
Remote Communication		
CT23 01	PTT microphone adapter to use SM-26 or HM-152 with a PC. Requires BC-147S.	$120.00
RCFS10 25	Remote Communicator software + CT-24 (digital voice converter unit - each IDAS system requires 1 CT-24)	$1,995.00
Repeaters		
FR5000 01	136-174MHz analog/digital IDAS repeater (power supply not included)	$2,165.00
URFR6000 41	400-470MHz repeater module	$1,205.00
URFR6000 51	450-512MHz repeater module	$1,205.00
Trunking/Network Controller		
IAS CROSSBAND CONTROLLER	Analog gateway that provides an easy migration path from analog to digital technology	$501.00
UCFR5000 01	Trunking/Network controller board (1 per repeater)	$500.00

IAS 100D Series

High-Power Digital & Analog Repeater

SPECS

Frequencies:	136-174, 400-470, 450-512MHz
Output Power:	100W at 100% duty cycle
Channels:	32
Channel Spacing:	6.25 (digital) / 12.5kHz
LCD Display:	16-digit dot matrix Display
Programmable buttons:	5
Scan:	Normal & priority
Versions:	Standard 100W
	Public safety version

Standard

Public Safety Version

FEATURES

- **Standard**

20 amp power supply
Float charging capable for external battery
15 amp A/C surge suppression panel wIth 780 joules & MOV technology
TPL amp with built-in power supply with auto bypass of exciter input in case of A/C failure

- **Public Safety Version**

70 amp power supply with smart charge capable for external battery modular design load capacity & expandable to 120 amp load
15 amp A/C surge suppression panel wIth 1750 joules & SASD technology
TPL amp that operates on DC voltage, in case of A/C power failure, repeater continues to develop 100W

Third party components noted are subject to change or substitution.

SIGNALING

Digital RAN Code decode
5-tone & DTMF Encode/Decode (analog)
CTCSS

ENCRYPTION

Simple Inversion: UT-109R 32 Codes (analog)
Rolling Code: UT-110R 1020 Codes (analog)
IDAS digital mode, 15-bit encryption key
provides over 32K codes

WARRANTY

2-Year

MDC 1200 Compatible

iDAS ICOM DIGITAL ADVANCED SYSTEM

IAS 100D Series

High-Power Digital & Analog Repeater

Configurations

Model	Description	MSRP
IAS 100DU 01	400-470MHz 100W standard version	$5,050.00
IAS 100DU 01 PUBLIC SAFTY	400-470MHz 100W public safety version with 70Amp power supply with smart charging external battery	$5,890.00
IAS 100DU 11	450-512MHz 100W standard version	$5,050.00
IAS 100DU 11 PUBLIC SAFTY	450-512MHz 100W public safety version with 70Amp power supply with smart charging external battery	$5,890.00
IAS 100DV	136-174MHz 100W public safety version with 20 amp power supply	$5,050.00
IAS 100DV PUBLIC SAFETY	136-174MHz 100W public safety version with 70Amp power supply with smart charging external battery	$5,890.00

Accessories

Model	Description	MSRP
EXTWARRPT1	1 year extended warranty for a total 3 years	$180.00
EXTWARRPT2	2 year extended warranty for a total 4 years	$325.00
EXTWARRPT3	3 year extended warranty for a total 5 years	$465.00
PROGLM9876		$125.00
Antenna Switches		
IAS 1RU ANT SW-DUAL	Dual antenna switch for base station operation	$910.00
IAS 1RU ANT SW-SINGLE	Single antenna switch for base station operation	$500.00
Cabinets		
ASAP INDOOR CABINET 30	30" indoor cabinet	$1,365.00
ASAP INDOOR CABINET 46	46" indoor cabinet	$1,950.00
ASAP INDOOR CABINET 60	60" indoor cabinet	$3,025.00
Duplexers		
EMR64536/ENC	148-174 MHz duplexer, 3MHz minimum separation for the IAS 100WD repeater	$1,474.00
IAS DVN 4522L	400-512MHz 4 cavity duplexer, 3 min split for the IAS 100W analog repeater	$1,730.00
TEL TPRD 1554	VHF duplexer; 400 Kc minimum split	$2,375.00
Internal Modules		
INSTALLLM1234	Icom installation charge	$40.00
UT109R 21	Non-rolling voice scrambler. Up to 32 codes available. Not compatible with radios using the UT-110.	$105.00
UT110R 21	Rolling voice scrambler. Up to 1020 (255 codes x 4 groups) codes available. Works only in analog mode.	$173.00
IP Linking		
CFFR5000 02	Multi-site (conventional only) IP repeater link card (requires the UC-FR5000 board)	$65.00
CFFR5000MT	Multi-site(conventional & trunking)IP repeater link card (requires UC-FR5000 board)	$1,375.00
Manuals		
94415355	FR6000 CD service manual	$40.00
94415514	FR5000 CD service manual	$40.00
97715348	FR6000 service manual - hardcopy	$40.00

IAS 100D Series

High-Power Digital & Analog Repeater

Accessories

Model	Description	MSRP
97715370	FR5000 service manual - hardcopy	$40.00
98815350	FR5000/6000 owner's manual	$12.00
Microphones		
HM148G	Self grounding microphone for mobile radios	$67.00
HM148T	DMTF mobile microphone	$110.00
HM152	Standard microphone for low/mid range mobile radios	$44.00
HM152T	DTMF modular microphone for LM mobile radios	$90.00
SM26	Desktop microphone with monitor switch for mobile radios	$90.00
Miscellaneous		
CT24	Digital voice converter (supplied with RCFS10 and works with VEPG3)	$1,495.00
VEPG3	ROIP Gateway	$1,900.00
Mounting hardware		
ASAP FR6000 UNIVERSAL PL	Internal universal accessory mounting plate	$26.00
Pilot Tone Generator		
JPSPTG10	Pilot tone generator for analog operation only (requires ASAP mounting plate for installation)	$980.67
Pre-Selectors		
FIP PR-15-4H	VHF internally mounted 4-cavity RX Pre-Selector (requires ASAP mounting plate for installation with FR5000)	$653.00
FIP PR-45-4C	UHF internally mounted 4-cavity RX Pre-Selector (requires ASAP mounting plate for installation w/FR6000)	$640.00
Programming Software & Cables		
CSFR5000	FR5000/6000 programming software	$72.00
OPC1122	PC to radio programming cloning cable for mobile radios with RC-232S connector.	$99.00
OPC1122U	PC to radio programming cloning cable for mobile radios with USB connector.	$99.00
PROGLM1234	Icom to program your radio or IAS product	$42.00
PROGLM6789	Icom to program your radio or IAS product	$70.00
Racks		
HMDDNRR42HDW	42" rack (includes assembly and hardware)	$502.00
HMDDNRR63HDW	63" rack (includes assembly and hardware)	$561.00
HMDDNRR70HDW	70" rack (includes assembly and hardware)	$569.00
HMDRRTT1928	28" rack (includes assembly and hardware)	$275.00
Remote Communication		
CT23 01	PTT microphone adapter to use SM-26 or HM-152 with a PC. Requires BC-147S.	$120.00
RCFS10 25	Remote Communicator software + CT-24 (digital voice converter unit - each IDAS system requires 1 CT-24)	$1,995.00
Trunking/Network Controller		
UCFR5000 01	Trunking/Network controller board (1 per repeater)	$500.00

FR9010 – FR9020 Series

110W Full Duty Cycle P25 Digital Repeater

SPECS

Frequencies:	146-174, 440-475MHz
Output Power:	110W VHF
	100W UHF
Channels:	500 channels
Channel Spacing:	12.5kHz
Display:	5 color LEDs
Mil Spec:	810 G
Size:	18.98x3.46x16.26 in
Weight:	11.0 kg; 24.3 lb (approx)

FEATURES

P25 conventional, analog FM and mixed mode
500 memory channels capacity
P25 conventional base mode:

- Emergency
- Call alert
- Radio check
- Radio inhibit (Stun)
- Radio uninhibit (Revive)
- Status update
- Status request
- SBC log (Call log)
- OTAR (Over-the-Air-Rekeying)
- Individual, group and all calls

D-SUB 25-pin accessory connector
Programmable CTCSS, DTCS and NAC
CW ID transmission
High reliability, rugged construction
±1.5ppm frequency stability (Digital mode)
Low standby current (280mA)
P25 self-test mode and key test mode
Automatic error detection
5 color LEDs
2U low profile for rack mount

Comes With

DC power cable connector
2-Year warranty

FR9010 – FR9020 Series

110W Full Duty Cycle P25 Digital Repeater

Configurations

Model	Description	MSRP
FR9010 11	146-174MHz 110W P25 repeater	$8,700.00
FR9020 11	440-475MHz 100W P25 repeater	$8,700.00

Accessories

Model	Description	MSRP
EXTWARRPT1	1 year extended warranty for a total 3 years	$180.00
EXTWARRPT2	2 year extended warranty for a total 4 years	$325.00
EXTWARRPT3	3 year extended warranty for a total 5 years	$465.00
Antenna Switches		
IAS 1RU ANT SW-DUAL	Dual antenna switch for base station operation	$910.00
IAS 1RU ANT SW-SINGLE	Single antenna switch for base station operation	$500.00
IAS ANTRLY-D	1RU dual antenna relay for FR9010/9020	$945.00
IAS ANTRLY-S	1RU single antenna relay for FR9010/9020	$520.00
Cabinets		
ASAP INDOOR CABINET 30	30" indoor cabinet	$1,365.00
ASAP INDOOR CABINET 46	46" indoor cabinet	$1,950.00
ASAP INDOOR CABINET 60	60" indoor cabinet	$3,025.00
Duplexers		
EMR64536/ENC	148-174 MHz duplexer, 3MHz minimum separation for the IAS 100WD repeater	$1,474.00
IAS DVN 4522L	400-512MHz 4 cavity duplexer, 3 min split for the IAS 100W analog repeater	$1,730.00
TEL TPRD 1554	VHF duplexer; 400 Kc minimum split	$2,375.00
TEL TPRD 1556	VHF duplexer; 600 Kc minimum split	$3,850.00
Manuals		
94416670	Service manual CD for FR9010	$40.00
94416673	Service manual CD for FR9020	$40.00
97716669	Service manual hard copy FR9010	$40.00
97716672	Service manual hard copy for FR9020	$40.00
98816671	Owner's manual FR9010/9020	$12.00
Microphones		
HM-9000	Speaker microphone for the FR9010/9020 repeaters	$80.00
Power Supplies		
ICT 22012-35N	Single module power supply - rack mountable (4 module capable)	$1,199.00
ICT 22012-70N	Dual module power supply - rack mountable (4 module capable)	$1,587.00
Programming Software & Cables		
CSFR9010	Programming software for the FR9010/9020	$72.00
OPC-9000	Programming cable for the FR9010/9020 repeaters	$270.00
PROGLM6789	Icom to program your radio or IAS product	$70.00

FR9010 – FR9020 Series

110W Full Duty Cycle P25 Digital Repeater

Accessories

Model	Description	MSRP
Racks		
HMDDNRR42HDW	42" rack (includes assembly and hardware)	$502.00
HMDDNRR63HDW	63" rack (includes assembly and hardware)	$561.00
HMDDNRR70HDW	70" rack (includes assembly and hardware)	$569.00
HMDRRTT1928	28" rack (includes assembly and hardware)	$275.00

RF Technologies – Eclipse2 Series

Software-Defined P25 Repeater / Analog Base Station

SPECS

Frequencies:	136-174MHz (VHF), 450-520MHz (UHF)
Output Power Adjustable:	0.5-5W
Channels:	256
Weight:	1.45Kg (Receiver & Exciter); 3.55Kg (Pwr Amp); 4.65Kg (PA 501); 2.6Kg (SMPS-12); 8.0Kg (PS-12); 4.55Kg (Mounting rack)

FEATURES

Auto sensing repeater (P25 / Analog) 100% duty cycle operation
Remote diagnostics via ethernet: alarm monitor & report
Battery backup – charging & auto switch over capable
Built-in 35 amp power supply: 240-120V AC operation
IP commander – ethernet programming with rollback feature
Modular design – space saving 4RU
Full duplex analog repeater base station
Firmware upgradeable to P25 via ethernet
IP firmware & software updating capable

SIGNALING

DTMF Encoded / Decode
Built-In 2-Tone, 5-Tone

COMES WITH

Owner's manual
Warranty: 1 year

RF Technologies – Eclipse2 Series

Software-Defined P25 Repeater / Analog Base Station

Configurations

Model	Description	MSRP
RFT P25 400-430	100W P25/analog 400-430MHz repeater with a power supply	$13,305.00
RFT P25 440-490	100W P25/analog 440-490MHz repeater with a power supply	$13,305.00
RFT P25 485-520	100W P25/analog 485-520MHz repeater with a power supply	$13,305.00
RFT P25 136-174	2-120W P25/analog 136-174MHz repeater with a power supply	$12,905.00
RFT 400-430	100W analog 400-430MHz repeater with a power supply (P25 upgradeable)	$10,395.00
RFT 440-490	100W analog 440-490MHz repeater with a power supply (P25 upgradeable)	$10,395.00
RFT 485-520	100W P25/analog 485-520MHz repeater with a power supply	$10,395.00
RFT 136-174	100W analog 136-174MHz repeater with a power supply (P25 upgradeable)	$9,955.00

Accessories

Model	Description	MSRP
Antenna Switches		
IAS 1RU ANT SW-DUAL	Dual antenna switch for base station operation	$910.00
IAS 1RU ANT SW-SINGLE	Single antenna switch for base station operation	$500.00
Cabinets		
ASAP INDOOR CABINET 30	30" indoor cabinet	$1,365.00
ASAP INDOOR CABINET 46	46" indoor cabinet	$1,950.00
ASAP INDOOR CABINET 60	60" indoor cabinet	$3,025.00
Duplexers		
EMR64536/ENC	148-174 MHz duplexer, 3MHz minimum separation for the IAS 100WD repeater	$1,474.00
TEL TPRD 1556	VHF duplexer; 600 Kc minimum split	$3,850.00
Fan Module		
RFFM1	Fan module for RFT repeaters (recommended for 100W units)	$300.00
Internal Modules		
INSTALLLM1234	Icom installation charge	$40.00
INSTALLLM6789	Icom installation charge	$70.00
Manuals		
RFT P25 UHF MANUAL	RFT UHF P25/analog manual (included with repeater purchase)	$112.00
RFT P25 VHF MANUAL	RFT VHF P25/analog manual (included with repeater purchase)	$112.00
Miscellaneous		
RFT P25-C	P25 firmware upgrade for RFT analog P25 upgradeable repeaters	$3,428.00
Programming Software & Cables		
PROGLM6789	Icom to program your radio or IAS product	$70.00
RFT IP E2-P25	Programming software for RFT 100W P25/analog repeaters	$445.00
Racks		
HMDDNRR42HDW	42" rack (includes assembly and hardware)	$502.00

RF Technologies – Eclipse2 Series

Software-Defined P25 Repeater / Analog Base Station

Accessories

Model	Description	MSRP
HMDDNRR63HDW	63" rack (includes assembly and hardware)	$561.00
HMDDNRR70HDW	70" rack (includes assembly and hardware)	$569.00
HMDRRTT1928	28" rack (includes assembly and hardware)	$275.00